

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.  
OM protein - protein search, using sw model  
Run on: October 29, 2003, 16:06:23 ; Search time 15.1588 Seconds  
(without alignments)  
2045.935 Million cell updates/sec  
Title: US-09-832-129-35\_COPY\_34\_766  
Perfect score: 3902  
Sequence: 1 AVSDQKATSPFDKLLSDKGP.....QAFNAKLPTMDYETKJCS 733  
Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5  
Searched: 328717 seqs, 42310358 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:  
1: /cgr2\_6/ptodata/2/iaa/5A\_COVB pep.\*  
2: /cgr2\_6/ptodata/2/iaa/5B\_COVB pep.\*  
3: /cgr2\_6/ptodata/2/iaa/6A\_COVB pep.\*  
4: /cgr2\_6/ptodata/2/iaa/6B\_COVB pep.\*  
5: /cgr2\_6/ptodata/2/iaa/PCFUS\_COVB pep.\*  
6: /cgr2\_6/ptodata/2/iaa/backfiles1 pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	115.5	3.0	990	4	US-09-627-376-7 Sequence 7, Appl
2	114.5	2.9	320	4	US-09-183-861-22 Sequence 22, Appl
3	114.5	2.9	320	4	US-09-183-861-55 Sequence 55, Appl
4	114.5	2.9	320	4	US-09-322-765-22 Sequence 22, Appl
5	114.5	2.9	320	4	US-09-322-765-55 Sequence 55, Appl
6	114.5	2.9	320	4	US-09-551-974A-22 Sequence 22, Appl
7	114.5	2.9	320	4	US-09-551-974A-55 Sequence 55, Appl
8	104.5	2.7	3461	4	US-09-334-220-2 Sequence 2, Appl
9	103.5	2.7	1038	3	US-09-541-782-4 Sequence 4, Appl
10	103.5	2.7	1038	4	US-09-723-820-4 Sequence 4, Appl
11	103	2.6	744	1	US-08-179-481-2 Sequence 2, Appl
12	102.5	2.6	1032	4	US-09-914-259-26 Sequence 25, Appl
13	102	2.6	1817	4	US-09-044-838-125 Sequence 125, App
14	101.5	2.6	907	3	US-08-930-996A-7 Sequence 7, Appl
15	101.5	2.6	993	3	US-08-183-211-2 Sequence 2, Appl
16	101.5	2.6	993	5	PCT-US95-00176A-2 Sequence 2, Appl
17	101.5	2.6	4654	3	US-08-476-815A-84 Sequence 84, Appl
18	101.5	2.6	4655	3	US-08-652-877-84 Sequence 84, Appl
19	101.5	2.6	4655	3	US-08-652-877-86 Sequence 86, Appl
20	101.5	2.6	4655	3	US-08-652-877-88 Sequence 88, Appl
21	101.5	2.6	4655	3	US-08-652-877-90 Sequence 90, Appl
22	100.5	2.6	560	2	US-08-559-482-5 Sequence 5, Appl
23	100.5	2.6	1198	3	US-09-245-041-131 Sequence 131, App
24	100.5	2.6	1198	4	US-09-734-236-3 Sequence 3, Appl
25	100.5	2.6	1350	3	US-09-245-041-17 Sequence 17, Appl
26	100.5	2.6	1429	3	US-09-245-041-130 Sequence 130, App
27	100.5	2.6	2787	3	US-09-245-041-15 Sequence 15, Appl

28 99.5 2.5 1170 1 US-08-313-288B-20 Sequence 20, Appl  
29 99.5 2.5 1211 4 US-09-134-001C-482C Sequence 4820, Ap  
30 97.5 2.5 993 1 US-08-222-299-4 Sequence 4, Appl  
31 97.5 2.5 993 2 US-08-434-878-4 Sequence 4, Appl  
32 97.5 2.5 993 5 PCT-US95-03718-4 Sequence 4, Appl  
33 97 2.5 557 1 US-08-313-288B-16 Sequence 16, Appl  
34 96.5 2.5 1073 3 US-09-541-782-6 Sequence 6, Appl  
35 96.5 2.5 1073 4 US-09-723-820-6 Sequence 6, Appl  
36 96.5 2.5 480 3 US-09-191-647-7 Sequence 7, Appl  
37 96.5 2.5 480 3 US-09-540-245A-7 Sequence 7, Appl  
38 96.5 2.5 480 3 US-09-540-153-7 Sequence 7, Appl  
39 96.5 2.5 480 4 US-09-182-034A-5 Sequence 5, Appl  
40 96.5 2.5 480 5 PCT-US91-09055-2 Sequence 2, Appl  
41 95.5 2.4 885 2 US-08-310-912A-2 Sequence 2, Appl  
42 95.5 2.4 885 3 US-08-841-089-2 Sequence 2, Appl  
43 95.5 2.4 885 3 US-09-301-085-2 Sequence 2, Appl  
44 95.5 2.4 885 5 PCT-US95-0457C-2 Sequence 2, Appl  
45 95.5 2.4 995 5 PCT US95-04599-2 Sequence 2, Appl

ALIGNMENTS

RESULT 1  
US-09-627-376-7  
; Sequence 7, Application US/09427376  
; Patent No. 6342385  
; GENERAL INFORMATION:  
; APPLICANT: Qi, Fengxia Caulfield, Page Chen, Ping  
; TITLE OF INVENTION: MUTACIN : BIOSYNTHESIS GENES AND PROTEINS  
; FILE REFERENCE: CAB-17402/22  
; CURRENT APPLICATION NUMBER: US/09/627,376  
; CURRENT FILING DATE: 2001-05-30  
; NUMBER OF SEQ ID NOS: 17  
; SOFTWARE: Patent version 3.0  
; SEQ ID NO 7  
; LENGTH: 990  
; TYPE: PRT  
; ORGANISM: Streptococcus mutans  
US-09-627-376-7

Query Match 3.0%; Score 115.5; DB 4; Length 990;  
Best Local Similarity 18.9%; Pred. No. 0.072;  
Matches 154; Conservative 125; Mismatches 270; Indels 265; Gaps 42;

QY 86 TQQITENLIXKG-----THFLLSATGGESLTFVDRKLSKRAEGSSTNS 136  
DB 139 TLKVANNALQKSNDFWCLDTSHPGLMNSRD:REDITV-----KSNQLIDYVNC 190  
QY 137 SS-VLETLHQAASYFDIRDSTLRLHHQIASTAIK---VTETGTGPGCSNYDK- 189  
DB 191 TTEP:SYQTLIDIDIAEKFSQSDDVK-----EYLGLIKEEFLITELKPSLID----DKP 241  
QY 190 LBSVSVLVQSPENKIQGL---QVLLPDYQERFVQAALSYIACNSEGETCKEN--- 243  
DB 242 LDWF-NILERCQNNSELLEKLEIKAMQDYTDRIIGEGNSILALENKMSQIVKANAYL 301  
QY 244 --DCVHCQPKPEPCNCSMD:QAMENLRLITETW-KAYNSDFESSEDEFKLFMKR---- 296  
DB 302 RVDLYDHAEFLKLAQHTKSSL-----QNLKVLSSFSFSAVNSQKIKNYHEKFIARYGYE 355  
QY 297 --LENNYFLNTST:WHLMTMDSNFORRYEOLR-NEMKQLFLKAQKIVHKL----FSLSKAC 350  
DB 356 QLVPLQLLJNS-----TSLGLFPKGYGQTEVSKQNNEDSKNQKIIFFLQPKFEALRD 408  
QY 351 HKQPLISPRQRTSTY-WLTRIQSPLYCNEN-----GLLGSFSEEHSCTC 395  
DB 403 GKREILSDDELKDLNFDTEQQISGLYCFYKFKSKKLEVSLGVQKLGNTGRHS-KL 467  
QY 396 PNDQVWCTAF-PCTVGDASACLTCPDNTRTGCTNGY-----XLSQGCCKEVEAES 448  
DB 468 PN-----TIVTKVNTKKE:FTAEYPNTIITQLNEVPYFGGNGNIVISNLS-KSHQLLEL 520



Db 224 V---EHCNTCVNGDSTRCAVCNTGYVYSDGKCK 253

## RESULT 4

US-09-022-765-22  
; Sequence 22, Application US/09022765  
; Patent No. 6375955

## GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.  
; APPLICANT: Campos-Neto, Antonio  
; APPLICANT: Webb, John R.  
; APPLICANT: Dillon, David C.  
; APPLICANT: Skeiky, Yasir A.W.  
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE THERAPY AND  
; NUMBER OF SEQUENCES: 87  
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SEED and BERRY LLP  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: USA

; ZIP: 98104-7092

## COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/022,765  
; FILING DATE: 12-FEB-1998

## CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Yaki, David J.

; REGISTRATION NUMBER: 31,392

; REFERENCE/DOCKET NUMBER: 210121.420C3

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-4900

; TELEFAX: (206) 692-6031

; INFORMATION FOR SEQ ID NO: 22:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 320 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: Protein

US-09-022-765-22

Query Match 2.9%; Score 114.5; DB 4; Length 320;  
Best Local Similarity 32.3%; Pred. No. 0.013;  
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 350 CHKQPLISLPQRTSTYKLTIRIQSLFYCNENGLLSFSEETHSCPCNDQVWCTAF.PCT 409

Db 176 CRLSDACSVNCKKCGTGSRL-----CAECDTGYVLSADATSCSPSTG-----PCE 223

QY 410 VGDASACUCAPDNTRCTGTCNTGYVLSGCK 442

Db 224 V---EHCNTCVNGDSTRCAVCNTGYVYSDGKCK 253

## RESULT 5

US-09-022-765-55  
; Sequence 55, Application US/09022765  
; Patent No. 6375955

## GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.  
; APPLICANT: Campos-Neto, Antonio  
; APPLICANT: Webb, John R.  
; APPLICANT: Dillon, David C.  
; APPLICANT: Skeiky, Yasir A.W.  
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE THERAPY AND  
; NUMBER OF SEQUENCES: 87  
; CORRESPONDENCE ADDRESS:

; ADDRESSEE: SEED and BERRY LLP

; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: USA

; ZIP: 98104-7092

## COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/022,765  
; FILING DATE: 12-FEB-1998

## CLASSIFICATION:

; ATTORNEY/AGENT INFORMATION:

; NAME: Yaki, David J.

; REGISTRATION NUMBER: 31,392

; REFERENCE/DOCKET NUMBER: 210121.420C3

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (206) 622-4900

; TELEFAX: (206) 632-6031

; INFORMATION FOR SEQ ID NO: 55:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 320 amino acids

; TYPE: amino acid

; STRANDEDNESS:

; TOPOLOGY: linear

; MOLECULE TYPE: protein

; FRAGMENT TYPE: internal

US-09-022-765-55

Query Match 2.9%; Score 114.5; DB 4; Length 320;  
Best Local Similarity 32.3%; Pred. No. 0.013;  
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 350 CHKQPLISLPQRTSTYKLTIRIQSLFYCNENGLLSFSEETHSCPCNDQVWCTAF.PCT 409

Db 176 CRLSDACSVNCKKCGTGSRL-----CAECDTGYVLSADATSCSPSTG-----PCE 223

QY 410 VGDASACUCAPDNTRCTGTCNTGYVLSGCK 442

Db 224 V---EHCNTCVNGDSTRCAVCNTGYVYSDGKCK 253

## RESULT 6

US-09-551-974A-22  
; Sequence 22, Application US/09551974A  
; Patent No. 6503437

## GENERAL INFORMATION:

; APPLICANT: Reed, Steven G.

; APPLICANT: Campos-Neto, Antonio

; APPLICANT: Webb, John R.

; APPLICANT: Dillon, David C.

; APPLICANT: Skeiky, Yasir A.W.

; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE

; FILE REFERENCE: 210121.420C5

; CURRENT APPLICATION NUMBER: US/09/551,974A

; CURRENT FILING DATE: 2000-04-14

; NUMBER OF SEQ ID NOS: 101

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 22

; LENGTH: 320

; TYPE: PRT

; ORGANISM: Leishmania major

US-09-551-974A-22

Query Match 2.9%; Score 114.5; DB 4; Length 320;  
Best Local Similarity 32.3%; Pred. No. 0.013;  
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 350 CHKQPLISLPQRTSTYKLTIRIQSLFYCNENGLLSFSEETHSCPCNDQVWCTAF.PCT 409

```

DB 176 CR:SDACSVPNCKKCTGTSRL-----CAEDCTGYSLSADATSCSSPTIQ-----PCE 223
QY 4:0 VGDASACVTCAPDNTRCGTNTGTGMLSGCLCK 442
DB 224 V---EHCNTCVNGDSTRACAYCNGTYVWSGKCK 253

RESULT 7
US-09-551-974A-55
; Sequence 55, Application US/09551974A
; Patent No. 6500437
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, David C.
; APPLICANT: Skeiky, Yasir A.W.
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS
; FILE REFERENCE: 21021.420C5
; CURRENT APPLICATION NUMBER: US/09/551,974A
; CURRENT FILING DATE: 2000-04-14
; NUMBER OF SEQ ID NOS: 101
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 320
; TYPE: PRT
; ORGANISM: Leishmania major
US-09-551-974A-55

Query Match 2.9%; Score 114.5; DB 4; Length 320;
Best Local Similarity 32.3%; Pred No. 0.013;
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 350 CHKQPLSLPRTSTYMLTRIQSLYCNENGLLOSFEETHSCTCPNDQVVTAFPLCT 409
DB 176 CR:SDACSVPNCKKCTGTSRL-----CAEDCTGYSLSADATSCSSPTIQ-----PCE 223
QY 4:0 VGDASACVTCAPDNTRCGTNTGTGMLSGCLCK 442
DB 224 V---EHCNTCVNGDSTRACAYCNGTYVWSGKCK 253

RESULT 8
US-09-334-220-2
; Sequence 2, Application US/09334220
; Patent No. 6923177
; GENERAL INFORMATION:
; APPLICANT: St. Jude's Children's Research Hospital
; APPLICANT: Curtan, Thomas
; APPLICANT: D'Arcangelo, Gabriella
; TITLE OF INVENTION: INTERACTION OF REELIN WITH VERY LOW
; TITLE OF INVENTION: DENSITY LIPOPROTEIN (VLDL) RECEPTOR FOR SCREENING AND
; TITLE OF INVENTION: THERAPIES
; FILE REFERENCE: 2427/CF704
; CURRENT APPLICATION NUMBER: US/09/334,220
; CURRENT FILING DATE: 1999-06-16
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 346;
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-334-220-2

Query Match 2.7%; Score 104.5; DB 4; Length 346;
Best Local Similarity 17.3%; Pred. No. 7.4;
Matches 129; Conservative 104; Mismatches 218; Indels 293; Gaps 37;

QY 40 TRYKIYR-----EFGRWKVNLAIV--ERRNFGSLPLPLAPEFFRNRLGRRPTQQIT 91
DB 1196 TRFRWKKVFGSDYDCQWAVDDIILISEKQ---QVIVV-----NPTLPQ--- 1238

```

```

QY 92 ENLIKKGTFHLLSATLGGERSLTIIVDKRKLKRAEGSDSTNSSSYTJLTLHCLAASY 151
DB 1239 -NFYEKPAFTYPMK-----QNSVLMJANEGMAKN-DSFCATTPSAMVFGKS---DGDRE 1288
QY 152 FIDRSTLRRLHHIQASTAKVTTETRTGTPGCSNVNLDVSYSVLVQSPENKICLOGSQ 211
DB 1289 AVTRDLTLGGVVLQFKLN-----IGCTS--QFSSTAPVLLQYSHD----- 1327
QY 212 VILPYLQRFVQAALSYIACNSGEFFCKEKDCKCHCKPKEFCNCPSCYDCAEENL 271
DB 1328 -----AGXSW-----FLKEG-CF-----PASAAGCEGSR 1353
QY 272 RITETWKAVNSDPEESDERKLEKALPNYPLNTSTIMELJWYDSNFORRYCLENSMQ 331
DB 1354 ELSEPTVYVIGDFEETRTITIA:PR-----SLASSKTRFRFWQESSQKNVFP----- 1401
QY 332 LFLKAQKIVHKLPFSKSKCHKQPLISLPPORTSTYMLTRIQSLYCNENGLLOSFEETH 391
DB 1402 -----FGLDGVYISPCPS-----YCSHG----- 1421
QY 392 SOTCPNDQVVTAFVCTVGDASA-----CLTCAPDNR----- 425
DB 1422 -----DCISGVCF--CDLGYTAAQGTGVSNTPNHSMPDFEGKLSPLWYKITGGQVGT 1473
QY 426 RCGTNTGYML-SQGJCKPE-----VAESTD--HYIGFETDLQDLE 463
DB 1474 CGGTJNDGRSLYFNGLGKREARTVPLDTRNISLVQFYIGISKTSGITVITPRAYEGLV 1533
QY 464 MKY-----LLQKTDRIEIVHAFIFISNDRLNS-----WFDPSWRKRM----- 501
DB 1534 VQVSNENGILWHLRLDFMSPLEPQ:ISIDLPREAKTPATAFRMQPOGHKHSQAQWJG 1593
QY 502 -----LTKSNKYKSSLVHMLGLSLQI-CLTXNSTLEPVLAVY 539
DB 1594 DVLIGNVDSSTQFQDKLQGS:DLQANWYR-----QGGQVDLCLSMDTAL----- 1642
QY 540 VNPFGG-SSESWMFVNENSPFDWERTKLDLPLOQ-----YKWTJTLGNKWT 587
DB 1643 TENIGHPRVAETWDPHVSRSSFLCNE-----MNMGCKPFPSSAHG:CLOYSLNNGKDWQL 1697
QY 588 FFE-----TVH-----IYLRGRKSNQPNONESIYYEPIEFIDPSNGLGNKKNIN:Q 634
DB 1698 VTBEQVPTIGCVHYTESSTYTSERFQ---RWRRVTVVLPJATNSPRTSPRAICTN--- 1750
QY 635 VFGYKHFDFEAIKDLCLDIFY 658
DB 1751 ---YTVGADSWAIDNVILASGGCP 177;

RESULT 9
US-09-541-782-4
; Sequence 4, Application US/09541782
; Patent No. 6284430
; GENERAL INFORMATION:
; APPLICANT: Nislow, Corey
; APPLICANT: Sakowicz, Roman
; APPLICANT: Beraud, Christophe
; TITLE OF INVENTION: Antifungal Assay
; FILE REFERENCE: 1015
; CURRENT APPLICATION NUMBER: US/09/541,782
; CURRENT FILING DATE: 2000-04-03
; NUMBER OF SEQ ID NOS: 10
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 1838
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-541-782-4

Query Match 2.7%; Score 103.5; DB 3; Length 1038;
Best Local Similarity 20.5%; Pred. No. 1.2;
Matches 83; Conservative 76; Mismatches 167; Indels 79; Gaps 20;

```



Db 437 CVAVEISECONHSCSWCYNHHGHCDISGPPDCOPT---CTCAPAFTONRCF.AGNHET 493  
Qy 259 ---PSMD:CAMBENLRITETWKANYSDFEBSDEFKLFYKSLPKNYFJNTSTI----- 308  
Db 494 PIYKELPLRTI---TLSAREENASADVNAS--VANVLENDVRAFLSNS:VELIPIS 548  
Qy 309 ---MHLTYSNFORR-----VEQLENSKQIFU-----KAKK 338  
Db 549 PGAPVLGKPIHKKVSHFYKRPAGPLIHYLNKQLISAWVEAFJLQARQERRKRSGEARK 608  
Qy 339 IVHKLFSLSKCHKOPLISLPRGRTSTYTLTQSFLYCNENSLGSSSEBHSCTCND 395  
Db 609 NV-RFPIS-RADVQGMALN-----LSMDEYFTC--GYKG-----YHLVYSQD 651  
Qy 399 QNVCTAFPLPCTVG-----DASACLCA 420  
Db 652 GVTCVS--PSEGYCHNGQCKHLPDGPQC-TCA 692

RESULT 12  
US-09-914-259-26  
; Sequence 26, Application US/09914259  
; Patent No. 6495336  
; GENERAL INFORMATION:  
; APPLICANT: Makowski, Lee  
; APPLICANT: Hymann, Paul  
; APPLICANT: Williams, Mark  
; TITLE OF INVENTION: STAGED ASSEMBLY OF NANOSTRUCTURES  
; FILE REFERENCE: 9471-010-999  
; CURRENT APPLICATION NUMBER: US/09/914,259  
; CURRENT FILING DATE: 2000-11-22  
; NUMBER OF SEQ ID NOS: 180  
; SOFTWARE: PasteSeq for Windows Version 4.0  
; SEQ ID NO 26  
; LENGTH: 1032  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-914-259-26

Query Match 2.68; Score 102.5; DB 4; Length 1032;  
Best Local Similarity 17.68; Pred. No. 1.5;  
Matches 130; Conservative 104; Mismatches 253; Indels 253; Gaps 27.

Qy 25 QEYTFDVRQRQFSRYKIYRFGGWKNLAVERNFQSPJPLAPEFFKXILLQRP 84  
Db 344 KYEKEKEKTKACKETINKLEALSWMNGENVPETELAGEEALGASLCSTFWONS 403  
Qy 85 PTLQOITENIKKYGHFLLSA:CGSESLLTFVKKLSKRAEGSDSTNSSVLTET 144  
Db 404 SIVVRIAPERQY-----EESI-----RRLYKQDCKDEINQCSQLEK 445  
Qy 145 HQ-----LAAGVFDROSTLRRLHHIOIASAIKVITRTGPGCSNYDHLDSVSVL 197  
Db 446 KOXLDGELLVSTRGDNKVKVBSLHSDAOK-----DEKVEV- 487  
Qy 198 VQSFENKIQGGQVLVLPDYQLERFVQALSYIACNSEGEFICKNDCKCHOPKPPCN 257  
Db 488 -----LQALELAVAYDCK-----SOEVEKSSQNOJ-----LVQELS 520  
Qy 258 CPSNDCAMENLRITET-----WKAYNSEFEESDEEKLFXK-----RLPMYVJNT 305  
Db 521 QKVATMUSLESELCQJQVESHGQKRIAEVLNG:MKDLSEFSVIVNGR:KLIV----- 574  
Qy 306 STIMHLWTMPSNFORRYEQLNSMKQFLKQAQ-----KIVHKLFSLSKCHKOPL:SLPRQ 361  
Db 575 -----EISGAIEEBFTVARVYSKIKSEKSVVVKSCQ----- 607  
Qy 362 RTSTYVW:TR:CSFLYCNENSLGSPSEEH:HSCTCPNDQVCTAFPLCTVGDASACLTAP 421  
Db 608 -----LENLQVECHRRKRYVTGTRE:SSCQJLIS 634  
Qy 422 DNRTRCGTNTGVYVLSQGLCKPEVAESTDHYIGFETDQJLEKMYLLQKTDRIEVAIF 481

Db 635 QBEAKIRSL-TEYMSQSVLKKPHLEESYD-----SLSDELAKLQAOET-----VHEVA 661  
Qy 482 ISK-----DYRLNSWFDPSWRKRMLT:KSNKYKSSJYHMLGLSLQ:CL 526  
Db 692 LKXKEPDTCADDEVKKAJECQWESHREAHHQARLRDEINF-KOKT:DELKDLNOK:QL 740  
Qy 527 TKNSTLEPVLAVYVMPFGGSHSESWFYVNVNENSPFDWERTKLQD-----P-QCYNW 577  
Db 741 ----ELEKQCADYEKLSEHEKSTKLQELTFLYERHEQSKCDLKGLEETVARE:Q----- 792  
Qy 578 TLTGKNWKTFFETVHLYLRSIKNG--PKNPSIYYEPLFIDPSRNLYGMYKINN:Q 634  
Db 793 ---LHNRKLFFQCV-----TTVRKSAEMEPDSCGIHSQ-----KOKISFJE-NMLE 838  
Qy 635 VFGYSMHFDFAIRDILQDYPYTCGSOCSALLQLEIRDRVYNKLSPPGQRRLDJFSCL 694  
Db 839 -----QLTKVHKQLYRDN-----DLRCELPK----- 860  
Qy 695 JHRLKJSTSEVVRIOQSLQ 714  
Db 861 LEKRLRATAERYKALEGALK 880

RESULT 13  
US-09-004-838-125  
; Sequence 125, Application US/09004838  
; Patent No. 6350933  
; GENERAL INFORMATION:  
; APPLICANT: Micheliore, Richard W.  
; APPLICANT: Shen, Kathy  
; APPLICANT: Meyers, Blake  
; TITLE OF INVENTION: Procedures and Materials for  
; TITLE OF INVENTION: Conferring Pest Resistance in Plants  
; NUMBER OF SEQUENCES: 140  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Center, Eighth Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC Compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/004,838  
; FILING DATE: 09-JAN-1998  
; CLASSIFICATION: 800  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/761,734  
; FILING DATE: 10-JAN-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Eichen, Gregory P.  
; REGISTRATION NUMBER: 38,440  
; REFERENCE/DOCKET NUMBER: 023070-07681205  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (415) 576-0200  
; TELEFAX: (415) 576-0300  
; INFORMATION FOR SEQ ID NO: 125:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1817 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FEATURE:  
; NAME/KEY: -  
; LOCATION: 1..1817  
; OTHER INFORMATION: /note= "RG2S deduced sequence"  
US-09-004-838-125

```

Query Match      2.6%  Score 102; DB 4; Length 1817;
Best Local Similarity 15.9%  Pred No. 4.4;
Matches 188; Conservative 122; Mismatches 281; Indels 320; Gaps 45;

QY 8 TSPF-----DL-----LSDKGFPHSQEYTCFVDSRSGFSTRYKRYIFRFGWKYKMA 57
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 215 TDFAICRAIADYLGICLNKTRPARADKLREFKKNSDGKTKFLIVLC-DWKCL----269

QY 58 VERNLGLSPLAPBFR-----NIRLGR-----43
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 270 VEDIEDGLSPFPGVDPKVLTSRSQVCTMMGVBEANS:INVCULTAEAGSDFQCFVE 329

QY 84 --RPTLCQITENLKKYGTHTFLSAT:GGES:TI:FDVKRKLKRAEGSDSTN:SSVT: 14:
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 330 TSEFELQIGEDIVKCC-----GPIAKTVACTRNRKRDANKDA-----37:

QY 142 ET:HLAASAFIDRDS:LRJHH:QIASTAIKVTETRTGELGGSNYDN:---DSVSSVAV 198
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 372 -----LSRIEYDHNVAKVFET-----SYNNLQEEBETKSTFLX 404

QY 199 -----QSPENKIQLQGLQVLLPYLQ-----RPFVQAALSY:ACNSE 237
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 407 CGLFFEDFDIPTBELXRYGKGLJCFRVY:REAR:RLNTCIERJVTNL-----456

QY 238 FICKENDKC-----HCGPKPEPC-----NCPSYDIOAVEELJRITEWKA 279
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 457 -LESDDVGCVKXHDVRAVLGNFSEVENASIVHGNMPEW:ENDITDSCKGISJ:TCKS 5:5

QY 280 YNSDFEESDEFKLFMKGLPMNYFNT:STIMH:MTMSNF---QRRYEQLNSYKQLFLKA 336
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 516 -----MSKFPDGFPPNLMILKLVHGKSLRFPQDFVEGMB-----55:

QY 337 QK:VHKLFPSKSKCHKOPLSL-PRQTSYVW:TRIOSFLYCHENGLLGSFSETHSCTC 395
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 552 -----KLHVISYDKMKYPLPLAPRCSTN-----IRVLHJ:TKC-----SUKMFDCCS 593

QY 396 -----PNDQVCTA-----P:PCVTG-----DASACLT:CAPEN:TRCGTONTGYML:SQ 438
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 594 IGNLSNLEVUSFANSR:EW:JPSTVRNLUKLRJLRLRFC-----DGLR:IEC 638

QY 439 GLCKPEVAESTDHYIGPETQLQLEMKYLLQKTRRIEVHAI:FI:SDMRL-NEW:FP:SMR 497
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 639 GV:LK-SLVKLEEFYIGNASGFI:DN:CNEM:ERSDNL:SALEFAFPNKA:EVKN:SFENLER 697

QY 498 KRM:-----LTLKNKYKXSLVHMILGLSIO:CLTKXSTIEPVL-----AVYVN 541
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 698 FK:SVGRSFDGINYSYSHVEN-----MLQAVTNKGEVLDSKLGJFLKTVLFLS 748

QY 542 PFGSHSESFM-----PVWENSFPDWERTKLDLPLOC-----YVWTLT:LGKMKWTFETVH 593
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 749 VHGNDLEDYEVKSTHTPQSSFCN-----LKVLI:SKVELRYFLKLNAN-----TJSRL:EH 8:2

QY 594 IYL-----RRIKSN:GNPN:GESIYVEJFIDPSR---NLGYMKINN:QVFSYGMH:FEPA 746
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 803 LEVCECENMBEL:HTGICGEETITFPK:LKLS:SQLPKJ:SLI-CHN:YNI:LLC-----PRL 856

QY 647 IRLILQ-----LDYPTQSGCSA:-----LCLLEIRAVN-----K:LFPGQ 665
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 857 V-DLILXIGPGFTVIYPQNKLR:TSLLKSEWIPKJ:ETLQIDCMEN:JEEIWP:CELAG:SEX 9:5

QY 686 ---RRLDL:FS-----LRRH:KLSTSEVVRIOSALCAPNAKL 720
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 916 VKLRE:IKUSSCDKUNLFPNFMNLSLJHHLBELKVNCGS:ES---LPI:DL 963

```

RESULT 14

```

US-08-930-996A-7
; Sequence 7, Application US/08930996A
; Patent No. 6100449
; GENERAL INFORMATION:
; APPLICANT: FLUHR, Robert
; APPLICANT: ESHED, Yuva;

```

```

APPLICANT: ORI, Naomi
APPLICANT: PARAN, Ilan
APPLICANT: ZAVIR, Daniel
TITLE OF INVENTION: A GENE FAMILY FROM THE 12 FUSARIUM RESISTANCE
TITLE OF INVENTION: LOCUS OF TOMATO AND USE THEREOF FOR TRANSFORMATION AND
TITLE OF INVENTION: SELECTIVE BREEDING OF TOMATO AND RELATED PLANTS
NUMBER OF SEQUENCES: 12
CORRESPONDENCE ADDRESS:
ADDRESSEE: BROWDY AND NEIMARK
STREET: 419 Seventh Street, N.W., Suite 300
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20004
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent's Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/98/910,996A
FILING DATE: 89-DEC-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US96/05272
FILING DATE: 15-APR-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: IL 113,373
FILING DATE: 13-APR-1995
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 907 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-930-996A-7

```

Query Match: 2.6%; Score 101.5; DB 3; Length 907;

Best Local Similarity 18.0%; Pred. No. 1.5; 198; Indels 255; Gaps 30;

Matches 118; Conservative 83; Mismatches 198; Indels 255; Gaps 30;

```

QY 170 TAIKVTEITRTGSL-----GCSNYNDSDSVSVL-----197
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 75 SAVQVTEITKALLVFRPRRQPT:EMRRYLSFCPCADYKLCCKYSAILKSGELPERSE 134

QY 198 -VQSPENKIQLQGLQVLLPYLQ-QERFVQAALSY:ACNSE-----235
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 135 A-KTGGSGIQVTCREIP:DSVVGN:TMMEQVLEFJSEEEERGIIGVYGGVGYKTLXQS 194

QY 236 --GEFICKEND---CWCHCGPKPECKCP-----SMDIOAVEEN-----269
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 195 INNELITKHQYCVLWVQMSREFGECTIQAVGARJGLSWDEKETGENRAKLYRALRQ 254

QY 270 ----LLRITETWKAYNSCFEESDEFKLFMKR-----LPMNYFLNTSYHMTWMSNFORRY 322
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 255 KRFLILLDDWV-----EELDLEXTGVPRPDRENKCKVMFTTRSIALCNNGA:YKLRV 307

QY 323 EQLJENMK-QLF-----IKAKYVHKLP:SLSKRCHKQPL-----S:PRGATSTY 366
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 308 EPEKKHAMELFCSKVKWRKDLLESSIRLAELVSKCGJFLALITLGGANMAHRETEEE 367

QY 367 W-----LJR-----LQSLYCN-ENGLLGS-----FSEETHSC:CPN-- 397
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 368 NIHA:SEVLT:RPAEMKGNVYVPAJLKFSYDNLESJLRSCEF:YCALFPEE-HSIEBQLV 426

QY 398 DOVCTAFPLPCTVGDASACLT:CAPDNTRCGTCNTSYMLSQGLCKPEVAESTDHY:GET 457
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 427 EYVWGEGLTSSHG-----VNTIYKGYFL-----450

QY 459 DIQDLEMKYLLQKTRRIEVHAI:FI:SDMRL-NEW:FP:SMR-----DPS-----495
   |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||  |||
Db 451 -IGDLKACLL:ETGDEKTVKMKHNVERSFAL--WMASEQGYTYKE--L:LVPSNGHT:EAPKA 507

```

QY 496 --WRKRMILLTKSNKYKSSLVHMLGSLQICLTKNSTLEPVJAVYVNPFGSSHSWPM 553  
DB 508 ENWQALVISJLDNRIOPLPEKLCIPKLTTLMLQONSLSKXI-----PTSPFH-----M 556  
QY 554 P---AVNENSPDWERTKDLDP--LQCVNWTLT-----LGNK----- 584  
DB 557 PVLRLVJLSFSITEPLSIKYLYELVHLSMGTKISVLPOELGNLAKLKHLDLQRTQPL 616  
QY 585 -----WMTFTTTHVHYRS---R-KSNQPNONESIYYEPJEFIDPSNKG 626  
DB 617 QTIPTDA\*CMLSKLEVLNLYSYAGWELCSFGEDAEELGPAD\*EYLENLTTLG 670

RESULT 15  
US-08-183-211-2  
; Sequence 21, Application US/081832:1  
; Patent No. 5618709  
; GENERAL INFORMATION:  
; APPLICANT: Alan M. Gewirtz, Donald Small, Curt I. Civin.  
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES  
; TITLE OF INVENTION: SPECIFIC FOR STR-1 AND METHOD FOR  
; TITLE OF INVENTION: INHIBITING EXPRESSION OF THE STR-1 PROTEIN  
; NUMBER OF SEQUENCES: 1  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEIDEL GONDA LAVORGNA & MONACO  
; STREET: Suite 1800, Penn. Center Plaza  
; CITY: Philadelphia  
; STATE: Pennsylvania  
; COUNTRY: U.S.A.  
; ZIP: 19102  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb  
; COMPUTER: IBM PS/2  
; OPERATING SYSTEM: MS-DOS  
; SOFTWARE: WordPerfect 5.1  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08183,211  
; FILING DATE:  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER:  
; FILING DATE:  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Monaco, Daniel A.  
; REGISTRATION NUMBER: 30,480  
; REFERENCE/DOCKET NUMBER: 3957-15  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (215) 568-8383  
; TELEFAX: (215) 565-5549  
; TELEX: No. 5618709e  
; INFORMATION FOR SEQ ID NO: 2:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 993 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
US-08-183-211-2

Query Match 2.6%; Score 101.5; DB 1; Length 993;  
Best Local Similarity 19.3%; Pred. No. 1.8;  
Matches 119; Conservative 76; Mismatches 237; Indels 183; Gaps 29;

QY 136 SSSVLTLETLHQLAAS---YFIDRDSFIRRHIIQ-----IASTAIVKVTETRTGPL----- 182  
DB 86 SASITLQVLVDAPGNISCLVWFKHSLSLNCOPHFDLONRGVWSVWIKXTETQAGEYLP 145  
QY 183 --GCSNYNDLSVS-----SVLVQSPENKIQLSQVLLPDYLOERFVQAAALSYACKS 234  
DB 146 QSEATNYTILFTVSIRNTLTYTLRRPYFRKVENQALVCISESVPEIVE-----KVLQDS 201  
QY 235 EGSFICKE-----NDCWCHCGPKF-----PECNCPSM 261  
DB 202 QSE-SCKEESPAVVKKEKVLHELFDGDIRCCARNSLGREC\*RLFTIDINOTPTLTPQL 260

QY 262 DIQWKEENLRLITE-----THKAYNSCFEESDEPKLFMKRLPMYFLNTSITXHLW 312  
DB 261 FUKVGEPLWIRCKAVRNHGFQUTWELNKALEEGNYFEM-----STYSTRTWIRILF 314  
QY 313 TMSDNFQRR---YEQLNSMKQLFLKAQKIVHKLF-----SLSKRCHKQPL1 356  
DB 315 AFVSSVARNDTGYTTCSSSKHPSQSALVTIVKGFINATNSSSEYEDCYEFCFSVRPK 374  
QY 357 SUPRQRTSTYWTCTIQSFYLYCNGL-----LGSPSEBETHS-----CTCPNDQVVTAF 405  
DB 375 AVPQIRCT--WTFSRKSF-PCQKGLDNGYSISKPCNKKHQPGGEYIFAAENDDAQFTKV 431  
QY 406 LPCTVGDASACLTCPDNRTGCTCNTGYMLS-----QGLCKPEVAESTDHYIGPE 456  
DB 432 FTNIRRKFCVLAELASASQASC--FSDGYPLSWTWKSCCKSPNCTEETESVWN----- 484  
QY 457 TDLQDLEMKYLLQKTDRR-EVHAIFISNDMRLNSWFPDPSWRKRMJLTLK-SNKYSSSLVH 515  
DB 485 -----RKANRKV-----FGQWVSSS-----TLNMSAINGFLVK 513  
QY 516 MILGLSJQCLTKNS---TLEPVJAVYVNPFGSSHSWFMVNNNSPFDWERTKDLPL 572  
DB 514 -----CCAYNSLGTSCETILLNSPGFF-----PFIQDN\*SFYATIGVCL-L 553  
QY 573 QCVNWTLTJLGNKKKTFEETVHIYJRSRIKSNQPNGNESIY-----YE PLEFIDPSNKG 626  
DB 554 FIVLTLLIICHYKKQFR--YESQJQVQVQVTSSSNNEYFYVDFREYEDLKNEFPRENLE 611  
QY 627 YMKNNNIQVGYSMH 641  
DB 612 FGKVLGSGAFGKWN 626

Search completed: October 29, 2003, 16:18:44  
Job time : 17.1588 secs



Centore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OX protein - protein search, using sw model

Run on: October 29, 2003, 16:13:29 ; Search time 23.9656 Seconds  
(without alignments)  
5235.672 Million cell updates/sec

Title: US-09-832-129-35\_COPY\_34\_766

Perfect score: 2902

Sequence: 1 AYSDCHATSPPDWLSDCKGPR.....QAFNAKENTMDYDTKCS 733

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 3.5

Searched: 642350 seqs, 171146564 residues

Total number of hits satisfying chosen parameters: 642350

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:

- 1: /cgn2\_6/prodata1/pubpaa/US07\_PUBCOMB.pep.\*
- 2: /cgn2\_6/prodata1/pubpaa/PCR\_NEW\_PUB.pep.\*
- 3: /cgn2\_6/prodata1/pubpaa/US06\_NEW\_PUB.pep.\*
- 4: /cgn2\_6/prodata1/pubpaa/US06\_PUBCOMB.pep.\*
- 5: /cgn2\_6/prodata1/pubpaa/PCRUS\_PUBCOMB.pep.\*
- 6: /cgn2\_6/prodata1/pubpaa/PCRUS\_PUBCOMB.pep.\*
- 7: /cgn2\_6/prodata1/pubpaa/US08\_NEW\_PUB.pep.\*
- 8: /cgn2\_6/prodata1/pubpaa/US08\_PUBCOMB.pep.\*
- 9: /cgn2\_6/prodata1/pubpaa/US09\_PUBCOMB.pep.\*
- 10: /cgn2\_6/prodata1/pubpaa/US09\_PUBCOMB.pep.\*
- 11: /cgn2\_6/prodata1/pubpaa/US09\_PUBCOMB.pep.\*
- 12: /cgn2\_6/prodata1/pubpaa/US09\_NEW\_PUB.pep.\*
- 13: /cgn2\_6/prodata1/pubpaa/US10\_PUBCOMB.pep.\*
- 14: /cgn2\_6/prodata1/pubpaa/US10\_PUBCOMB.pep.\*
- 15: /cgn2\_6/prodata1/pubpaa/US10\_PUBCOMB.pep.\*
- 16: /cgn2\_6/prodata1/pubpaa/US10\_NEW\_PUB.pep.\*
- 17: /cgn2\_6/prodata1/pubpaa/US60\_NEW\_PUB.pep.\*
- 18: /cgn2\_6/prodata1/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	3902	100.0	766	11	US-09-832-129-35
2	1550	39.7	378	9	US-09-864-761-4325-A
3	127.5	26.3	379	9	US-09-864-761-4322-A
4	327	8.4	78	9	US-09-864-761-3803-A
5	299.5	7.7	101	12	US-10-231-415-371
6	219	5.6	69	9	US-09-854-761-3813-A
7	123	3.2	709	9	US-09-991-496-121
8	123	3.2	709	10	US-09-991-496-121
9	117	3.0	617	15	US-10-142-143-2
10	115.5	3.0	990	14	US-10-947-676A-7
11	115	2.9	617	15	US-10-142-143-4
12	114.5	2.9	320	9	US-09-874-923-22
13	114.5	2.9	320	9	US-09-874-923-55
14	114.5	2.9	320	10	US-09-991-496-22
15	114.5	2.9	320	10	US-09-991-496-55

15	106.5	2.7	858	15	US-10-125-692-8	Sequence 8, Appli
17	105.5	2.7	1379	12	US-10-235-219-5	Sequence 5, Appli
18	104	2.7	501	15	US-10-142-143-17	Sequence 17, Appli
19	102.5	2.6	1032	12	US-10-080-608A-26	Sequence 26, Appli
20	102.5	2.6	4545	9	US-09-873-453-2	Sequence 2, Appli
21	101.5	2.6	1307	11	US-09-957-205-9	Sequence 9, Appli
22	100.5	2.6	1198	12	US-09-893-959-3	Sequence 3, Appli
23	100.5	2.6	1350	12	US-09-893-238-17	Sequence 17, Appli
24	120.5	2.6	2787	12	US-09-893-238-15	Sequence 15, Appli
25	100	2.6	581	12	US-10-354-358-34	Sequence 34, Appli
26	100	2.6	930	11	US-09-866-350A-63A	Sequence 63A, App
27	100	2.6	1548	13	US-13-180-923-2	Sequence 2, Appli
28	93.5	2.5	466	9	US-08-925-321-1047	Sequence 1047, Ap
29	93.5	2.5	1152	10	US-09-919-603-1	Sequence 1, Appli
30	93.5	2.5	1170	12	US-10-021-660-114	Sequence 114, App
31	93.5	2.5	1170	12	US-10-008-993-2	Sequence 2, Appli
32	93.5	2.5	1170	13	US-10-020-141-12	Sequence 12, Appli
33	93.5	2.5	1170	13	US-10-017-721-2	Sequence 2, Appli
34	99	2.5	930	11	US-09-866-050A-644	Sequence 644, App
35	99	2.5	1500	12	US-09-870-759-136	Sequence 136, App
36	99	2.5	1520	12	US-09-751-708A-136	Sequence 136, App
37	99	2.5	1128	12	US-10-205-194-1	Sequence 1, Appli
38	98	2.5	614	12	US-10-032-585-7669	Sequence 7669, Ap
39	98	2.5	798	10	US-09-978-349-8	Sequence 8, Appli
40	96.5	2.5	1480	12	US-10-289-776-7	Sequence 7, Appli
41	96.5	2.5	1480	14	US-10-011-064-5	Sequence 5, Appli
42	96	2.5	1591	9	US-09-864-761-37952	Sequence 37952, A
43	95.5	2.4	255	12	US-10-168-651-4	Sequence 4, Appli
44	95.5	2.4	255	12	US-10-264-171-2	Sequence 2, Appli
45	95.5	2.4	255	15	US-10-040-805-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1  
US-09-832-129-35  
Sequence 35, Application US/09832129  
Publication No. US2003027297A1  
GENERAL INFORMATION:  
APPLICANT: Fischeila et al.  
TITLE OF INVENTION: 19 Human secreted proteins  
FILE REFERENCE: P2045P1  
CURRENT APPLICATION NUMBER: US/09/832.129  
CURRENT FILING DATE: 2001-04-11  
PRIOR APPLICATION NUMBER: PCT/US02/28664  
PRIOR FILING DATE: 2001-10-17  
PRIOR APPLICATION NUMBER: 60/163,085  
PRIOR FILING DATE: 1999-11-02  
PRIOR APPLICATION NUMBER: 60/172,411  
PRIOR FILING DATE: 1999-12-17  
NUMBER OF SEQ ID NOS: 70  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 35  
TYPE: PPT  
LENGTH: 766  
ORGANISM: Homo sapiens  
US-09-832-129-35

Query Match	100.0%	Score 3902	DB 11	Length 766
Post Local Similarity	100.0%	Pred. No. 0		
Matches 733	Conservative 0	Mismatches 0	Indels 0	Gaps 0
CY	1	AYSDCHATSPPDWLSDCKGPRHSOEYDFVDRSGSGSTYKYRFGKWKNNLAYER	60	
DB	34	AYSDCHATSPPDWLSDCKGPRHSOEYDFVDRSGSGSTYKYRFGKWKNNLAYER	93	
CY	61	RNFLGSPPLAPEPRFNRLGRRRTLOCITENLIKKGTHFLLSATLGGESJTFVCK	120	
DB	94	RNFLGSPPLAPEPRFNRLGRRRTLOCITENLIKKGTHFLLSATLGGESJTFVCK	153	
CY	121	RKLSKRAEGSGSTTKSSSVTLTLHQLAASVTFDRDSTLRRLHHIQIASTAIKVTETRTG	180	

```
154 RKUSGAECSSTTSSSVTLTDQLASVFDSDSTLRJHHIQIASTAIKVTFTG 213
161 PLGCSNYKDLDSVSSVLOSPPNK*QLOGQLVLLPDYLCSEFVQAA*SYIACNSESSEFIC 240
214 PLGCSNYKDLDSVSSVLOSPPNK*QLOGQLVLLPDYLCSEFVQAA*SYIACNSESSEFIC 273
241 KENDCWCCHGKPFPCNCFSPMDIQAMENLDRITETKAYNSDFEESDEFKLPKRLPMN 300
274 KENDCWCCHGKPFPCNCFSPMDIQAMENLDRITETKAYNSDFEESDEFKLPKRLPMN 333
301 YFANTSTWHLWTMDSNFORVEQLNSKKQLFKAQKIVHK*FSLSKPCHKOPLISLR 360
334 YFANTSTWHLWTMDSNFORVEQLNSKKQLFKAQKIVHK*FSLSKPCHKOPLISLR 393
361 QRTSTYMLTRIOSFLYCNENGLGSPSEETHSCPCNDQVWCTAFPLPCTVGDASACTCA 420
394 QRTSTYMLTRIOSFLYCNENGLGSPSEETHSCPCNDQVWCTAFPLPCTVGDASACTCA 453
421 PDNRTRCGTCTGYMLSG*CKPEVAESTDHYIGFTDLOLEKYL*CKTORPLEVNAI 480
454 PDNRTRCGTCTGYMLSG*CKPEVAESTDHYIGFTDLOLEKYL*CKTORPLEVNAI 513
481 FLSNDRKASWDFPSWPKRMMLT*TKSNKYKSSLVHMLGLSLQIC*TKNSTLEPVAVV 540
514 FLSNDRKASWDFPSWPKRMMLT*TKSNKYKSSLVHMLGLSL*CICT*KNSTLEPVAVV 573
541 NPFSGSHSESMPVKNENSPFOWERTKLDLPLOCYNWTLTKGNKWK*TFETVHYIYRSR 600
574 NPFSGSHSESMPVKNENSPFOWERTKLDLPLOCYNWTLTKGNKWK*TFETVHYIYRSR 633
601 KSNPKRGNES*YIEP*EE*DPSEN*GYMKINNIQVGSNMFDP*AI*DL*LOLDYPTQ 660
634 KSNPKRGNES*YIEP*EE*DPSEN*GYMKINNIQVGSNMFDP*AI*DL*LOLDYPTQ 693
661 GSQSALQLLEIRDRVKNLSPGGRRLD*FSCLLRHRLK*LTSEVVRIC*ALQAFNAKL 720
694 GSQSALQLLEIRDRVKNLSPGGRRLD*FSCLLRHRLK*LTSEVVRIC*ALQAFNAKL 753
721 PNTMDYDTTKLCS 733
754 PNTMDYDTTKLCS 766

RESULT 2
US-09-864-761-43251
; Sequence 43251, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Aeolica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; PRIOR FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 60/180,312
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2003-08-03
; PRIOR APPLICATION NUMBER: GB 24263,6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
```

```
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2003-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49217
; SOFTWARE: Antrimax Sequence Listing Engine vers. 1.1
; SEQ ID NO 43251
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC022143.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.6
; OTHER INFORMATION: EST HUMAN HIT: AW95815.1, EVALUATE 0.00e-00
; OTHER INFORMATION: SW:SSPCT HIT: Q28661, EVALUATE 9.00e-03
US-09-864-761-43251

Query Match: 39.7%; Score 1550; DB 9; Length 378;
Rest Local Similarity 74.7%; Pred. No. 2,5e-136;
Matches 278; Conservative 45; Mismatches 49; Indels 0; Gaps 0;

QY 362 PTSTYMLTRIOSFLYCNENGLGSPSEETHSCPCNDQVWCTAFPLPCTVGDASACTCA 421
DB 7 PLSUYWNRICSLLYCGEST*PCTF*ECSSSTCTCPVDSGCCGPIPCALGEGPACACAP 66
QY 422 DNTRCGTCTGYMLSG*CKPEVAESTDHYIGFTDLOLEKYL*CKTORPLEVNAI 481
DB 67 DNSTRGSCNPGYVLACG*CRPEVAESLENFLGLETDLOLEKYL*CKDSRIEVSIF 126
QY 482 ISNDRKASWDFPSWPKRMMLT*TKSNKYKSSLVHMLGLSLQIC*TKNSTLEPVAVV 541
DB 127 ISNDRKASWDFPSWPKRMMLT*TKSNKYKSSLVHMLGLSLQIC*TKNSTLEPVAVV 186
QY 542 PFGSHSESMPVKNENSPFOWERTKLDLPLOCYNWTLTKGNKWK*TFETVHYIYRSR 601
DB 187 PFGSHSESMPVKNENSPFOWERTKLDLPLOCYNWTLTKGNKWK*TFETVHYIYRSR 246
QY 602 KSNPKRGNES*YIEP*EE*DPSEN*GYMKINNIQVGSNMFDP*AI*DL*LOLDYPTQ 661
DB 247 SLDSSNETIYEPLENT*PSK*LGYNKINTLQVFGYSLEFFDPA*IRDL*LOLDYPTQ 306
QY 662 GSQSALQLLEIRDRVKNLSPGGRRLD*FSCLLRHRLK*LTSEVVRIC*ALQAFNAKL 721
DB 307 GSQSALQLLEIRDRVKNLSPGGRRLD*FSCLLRHRLK*LTSEVVRIC*ALQAFNAKL 366
QY 722 PNTMDYDTTKLCS 733
DB 367 NPVEYETGKLCS 378

RESULT 3
US-09-964-761-43222
; Sequence 43222, Application US/09864761
; Patent No. US20020048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
```

```
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY
FILE REFERENCE: Aeomica-X-1
CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: GB 24263,16
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: GB 24263,16
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,697
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-10
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
SEQ ID NO 43222
LENGTH: 379
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC006239.5
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.7
OTHER INFORMATION: SWISSPROT HIT: P43413, EVALUATION: 3.5e-09
OTHER INFORMATION: EST HUMAN HIT: BF348205.1, EVALUATION: 1.00e-114
us-09-864-761-43222
Query Match 26.3%; Score 1027.5; DB 3; Length 379;
Best Local Similarity 50.1%; Pred No 23e-67;
Matches 191; Conservative 71; Mismatches 106; Indels 13; Gaps 67
QY 363 TSTWLTPTGSLVYCNENGLGFSSETHSCDNCQVGTAFPTCTVGDASACDTCAPD 422
D 1 TIOQMLARVQSLLYNENGFNGFTLEORSVCVHGSTLQRPPIPCVIGGNKNCAGSLA 60
QY 423 NRTTCGTCTGYKXLSGSLCKPEVAES--TDHYIGFETDL--OLEKXKYLQKTDPTIEVH 478
D 61 NLSLGCNKGKYLRCRCEPQVTSRSEQFISFETDLQFQDLEKYLQKQVSRVVR 120
QY 479 APTSDMRKNSWFDPSWRKSMILTKNSLVHVLGSLQICLTXTNSTLPTVIAV 538
D 121 TTFISNIRJDTFPDPWRKMSUTLKNKRMDFHXYIGMSMKICQMRKSLDPAFFV 180
QY 539 VYAPFGGSHSEWMPYKENSFPDWERTKJDLPLQCNWTLTLGNKNTFFETVHYLRS 598
```



```

; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bratia, Ajay
; APPLICANT: Coler, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; FILE REFERENCE: 210121.420C8
; CURRENT APPLICATION NUMBER: US/09/874.923
; CURRENT FILING DATE: 2001-06-04
; NUMBER OF SEQ ID NOS: 122
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 121
; LENGTH: 769
; TYPE: PRT
; ORGANISM: Leishmania major and chagasi
US-09-874-923-121

Query Match
Best Local Similarity 3.2%; Score 123; DB 9; Length 709;
Matches 75; Conservative 26; Mismatches 117; Indels 126; Gaps 16;

QY 170 TAAKVTETRTGPGCS-----NYNLDVSYSVLVQSPENKICLQGLQV 212
DB 354 TANKDPYTNAYLGGASGCTCFNETACLECRPSYEML-----PDYTCSLTGLQC 403
QY 213 LLPDY-----LQERFVQALSYACNS--EGEFICK-----END 244
DB 404 TDPNCKTCTTYGQCTDCNDGYGLTSSVVCVRCVAGCKSPVDANVCKVCLGGSEPINNY 463
QY 245 CWCCHGPKFPEC-NCPS-----MD---IQAYEENLLRITETWKAYNSDFEE 286
DB 464 CPC-----TDPNACSPSDAGTCTCCANGYGLVDGACVCEPCFCSC-----D 507
QY 287 SDEPKLPMKLPMPNYFLN-----TSTIMHMTMSNFCRRYBOLENSMKQLFKAQK 338
DB 508 SDANK--CTQCAPNYLTPLTCSFVACNIEHCWQCDQPTFSRCECVSP-----555
QY 339 IVHKLFSLSKCHKQPLISLPRQRTSYWLTRIQSFLYCNENGLGSEFSETHSCTCND 398
DB 556 --YVVDYDGLCLRLSDACSVNCKKCTGTGSRU-----CAECDTGYS:SADATSCSPTT 608
QY 399 QVVCCTAFLPCTVGDASACLTGAPDNRTCTGTCNTGYMLSGQLCK 442
DB 609 Q-----PCEV---EHCNTCVNGDSTRCAVNTGYVYSDGKCK 642

RESULT 8
US-09-991-496-121
; Sequence 121, Application US/3999:496
; Patent No. US20020162285A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, David C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bratia, Ajay
; APPLICANT: Coler, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; FILE REFERENCE: 210121.420C9
; CURRENT APPLICATION NUMBER: US/09/991.496
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 121
; LENGTH: 709
; TYPE: PRT
; ORGANISM: Leishmania major and chagasi
US-09-991-496-121
```

```

Query Match
Best Local Similarity 3.2%; Score 123; DB 10; Length 709;
Matches 75; Conservative 26; Mismatches 117; Indels 126; Gaps 16;

QY 170 TAAKVTETRTGPGCS-----NYNLDVSYSVLVQSPENKICLQGLQV 212
DB 354 TANKDPYTNAYLGGASGCTCFNETACLECRPSYEML-----PDYTCSLTGLQC 403
QY 213 LLPDY-----LQERFVQALSYACNS--EGEFICK-----END 244
DB 404 TDPNCKTCTTYGQCTDCNDGYGLTSSVVCVRCVAGCKSPVDANVCKVCLGGSEPINNY 463
QY 245 CWCCHGPKFPEC-NCPS-----MD---IQAYEENLLRITETWKAYNSDFEE 286
DB 464 CPC-----TDPNACSPSDAGTCTCCANGYGLVDGACVCEPCFCSC-----D 507
QY 287 SDEPKLPMKLPMPNYFLN-----TSTIMHMTMSNFCRRYBOLENSMKQLFKAQK 338
DB 508 SDANK--CTQCAPNYLTPLTCSFVACNIEHCWQCDQPTFSRCECVSP-----555
QY 339 IVHKLFSLSKCHKQPLISLPRQRTSYWLTRIQSFLYCNENGLGSEFSETHSCTCND 398
DB 556 --YVVDYDGLCLRLSDACSVNCKKCTGTGSRU-----CAECDTGYS:SADATSCSPTT 608
QY 399 QVVCCTAFLPCTVGDASACLTGAPDNRTCTGTCNTGYMLSGQLCK 442
DB 609 Q-----PCEV---EHCNTCVNGDSTRCAVNTGYVYSDGKCK 642

RESULT 9
US-10-142-143-2
; Sequence 2, Application US/10142143
; Publication No. US2003009967A1
; GENERAL INFORMATION:
; APPLICANT: DeAngelis, Paul
; TITLE OF INVENTION: HEPARIN/HEPAROSAN SYNTHASE FROM P. MULTOCIDA AND METHODS OF MAKI
; FILE REFERENCE: 5864.017
; CURRENT APPLICATION NUMBER: US/10/142,143
; CURRENT FILING DATE: 2002-05-08
; PRIOR APPLICATION NUMBER: 60/269,554
; PRIOR FILING DATE: 2001-05-08
; PRIOR APPLICATION NUMBER: 60/296,386
; PRIOR FILING DATE: 2001-06-04
; PRIOR APPLICATION NUMBER: 60/303,691
; PRIOR FILING DATE: 2001-07-06
; PRIOR APPLICATION NUMBER: 60/313,259
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent'n version 3.1
; SEQ ID NO 2
; LENGTH: 617
; TYPE: PRT
; ORGANISM: Pasteurella multocida
US-10-142-143-2

Query Match
Best Local Similarity 19.0%; Pred. No. 0.1; Score 117; DB 15; Length 617;
Matches 130; Conservative 11; Mismatches 207; Indels 236; Gaps 39;

QY 71 APEFFETRLGRRPTLQCTITENLKKYGTHTFLSATLG--GEESLTFVDRKLSKRAEG 129
DB 7 ATELEFS---GNYKCALTYENIAKIYGSLSWYNIIDICKNIT----QSKSNKIED 58
QY 130 SDSTTNSSSVLETUQLAASYFIDRSTLRLLHHIQIASTAKVETRTGP-----182
DB 59 KSGENKTSVSIKDYK-----EISNELGITKRLGAPPLVSIIM 99
QY 183 GCSNYDNL--DSVSSVYVCSPENKICLQGLQV--LPDYLCERFVCAAJ-----227
DB 100 TSINTEKFEASINSLD--CTVNN-----LEVIWVDYDSTDKTFOIASRIANSTSKVKTF 153
```

QY 228 -----SYLACN-----SEGEF--CXENDCWCXGKXFEBC-----NCPXY 26:  
 DB 154 RLNSNGTYFAKATGSLKSKGDIIFQDSDDVCH-HERIERCWALLSNKNDINVRCAVS 212  
 QY 262 DIOAMEENLLRITE-----TWKAYNSDFEE-----SDEF-----KLFNKPL 297  
 DB 213 RINLETQNIKVNDKMYKLGSLGWVEKVFNEIGFNCTTKASDEDFYHRIIKVYGNR 272  
 QY 298 PMNYFL-----NTS-----TIMHWTNDSNFCR-----YEQLENSMKQ 332  
 DB 273 INNPLPLYNTMRSDSLFSOMVEVDCNNKQKTSQARQNYLHEPCKIHNRKJNELK 332  
 QY 332 LFLKACKIVHKLFLSLSKRCH--QPLI-----SLPQRTSTYWLRIQSLFYCNVGL 382  
 DB 333 IFSRPR--IHALPLSKEMSKLSNPKPVYINISIP-----SRKOLQY--TIGV 379  
 QY 383 LGSFSEETHSTCPNQVCTAFPCCTYGDASACLTCPADNRTCGTCNTQYMLSQSLCK 442  
 DB 380 LKNCQDHPHYLDGYPEV--PQFIK-KLGNKATVINC--QKNESIRENGKFIILEKLIK 434  
 QY 443 PEVAESTHY-----IGFETDLOLEMKYLLCKTR-RIEVHAISINDYRLNSWFP 494  
 DB 435 -----ENKGGYITCDDIRYADYNTMIKKYNDKAAIGCHGVIFPS--RYKYFSS 488  
 QY 495 SWRKEMJLTLS-----NKYK-SLVLM--LGLSLCICLTKN 529  
 DB 489 D---RIVNFKXPJENDTAVMLGTGTVAFRVS--FNKESLSDFEHPGXVDIYFSLCKN 545  
 QY 530 STLEPVJAVYVNPFGGSHSKFMPNENSPDWERTKLDLPJOCYKMTLTLSGNKWTFF 589  
 DB 546 NILQVCI-----SRPSNKLTEQKN-----TETLPHEFQNRD 577  
 QY 590 ETVHLYLESR--KSNQPNQNSIY 612  
 DB 578 E-----IQSKDLSNPNWGYSSY 596

## RESULT 10

US-10-047-676A-7  
 ; Sequence 7, Application US/10047676A  
 ; Publication No. US20020123105A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Qi, Fengxia  
 ; APPLICANT: Caufield, Page W.  
 ; APPLICANT: Chen, Bing W.  
 ; TITLE OF INVENTION: NUTRACIN 1 BIOSYNTHESIS GENES AND PROTEINS  
 ; FILE REFERENCE: UAB-17403/22  
 ; CURRENT APPLICATION NUMBER: US/10/047,676A  
 ; CURRENT FILING DATE: 2002-03-21  
 ; PRIOR APPLICATION NUMBER: US 09/627,376  
 ; PRIOR FILING DATE: 2000-07-28  
 ; NUMBER OF SEQ ID NOS: 17  
 ; SOFTWARE: Patent in version 3.1  
 ; SEQ ID NO 7  
 ; LENGTH: 990  
 ; TYPE: PRT  
 ; ORGANISM: Streptococcus mutans  
 US-10-047-676A-7

Query Match 3.0%; Score 115.5; DB 14; Length 990;  
 Best Local Similarity 18.9%; Pred. No. 0.3;  
 Matches 154; Conservative 125; Mismatches 270; Indels 265; Gaps 42;  
 QY 86 TLQCTENLKKYK-----THF-LLSATLGGESLTI\*FVKKRLSKRAEGSDSTNS 136  
 DB 139 TLKVANNALQSNDFWLLDTRSHFGLMNSRSDREDITV-----KSNQLDIYVNC 190  
 QY 137 SS--VTEPLHQLAAYF\*DRDSTLRRLHHIQIASTAK-----VTETATGSLGCSNYN- 189  
 DB 191 TEPSYQTLIDDIKAKSQSSDDVK-----EYLQTLKEBEFLITELKPSID-----DNP 242  
 QY 190 LDSVSVLVQSPENKIQGL---QVLLPDYQLQRFVQAA-SYIACNSEGEFICKEN--- 243

DB 242 LQWFINILRDQWSELLEKLTETKAWICQYTRDNIGSGNNSLALENKYSQIYKANAYE 351  
 QY 244 --DCWCHGCFKPEPCNDPNDYQAMEENLLRITETW-KAYNSDFRSDSEFKPMKE----- 296  
 DB 302 RVGLYCHAEKLAQHTKSS-----QNLKYLSFSSAVNSQKSEIKKYHKEFPIAYGYE 355  
 QY 297 --LPMNYFLNTSTIKHLWTCYNSNFORRYECLE-NSMKQLFLKACKIVHKL---FSLSKRC 350  
 DB 356 QLYPLQLLNS-----TSGLGFPAKYSCTEVSQKNEDSKNCKIIEFQKFEKALRD 408  
 QY 351 HKQPLASLSPORTSTY-WLTRIQSFLYCNEN-----CLGGSFSEETHSCTC 395  
 DB 409 GXEIIISDODLKDLNEDTQQ-SGELYCFYFNKSKKLEYSLSGVSMQMGNTFCRPHS-KL 467  
 QY 396 FNDQVCTAFPLCTVGDASACLTCPADNRTCGTCNTGY-----MSSGGLCKPVAES 448  
 DB 468 PN-----TIVTKNWKTKETFEAYPNITITQJAEVYFVGRGNIMINSI-KSHQJEL 520  
 QY 449 TCHVIGFETDLOL-----ENKYLLOKTDRIEVAIFISNDYRLNSWFPDPMKRL 501  
 DB 521 RNTTKKMSINDIYVRSSELDYFYSKKYKRV-----FVNMNM--FNYNGSKLLRF 574  
 QY 502 LFLKSKKYSLSVHMLGL-----SQQCLTK 528  
 DB 575 LEVNSDFQ-NITPITLGLSLOSYNHVPAIYKDIILKPETNIRKSEAKTLDSEKNWLT- 632  
 QY 529 NSTLEBYL-----AVYVYFPGGSHSKFMPNENSP-----POWERKLDL 570  
 DB 633 NKKVPPFVRMKYTDQIYILGLRTIDLTMLFOSIKKHSFIQLDVHVSQVNTDTEILELV 692  
 QY 571 PL-----QCYNWTLT-----GNKWTTFETVHI-----YLR- 597  
 DB 693 PPTRSVNAHCIVHYAQN\*YTLSDSGSKKPYFVAKIYVNNKQCTSFQKEYPLLLKYLKL 752  
 QY 598 -----SRKSNQPNQNSIY-----SYVEPLEFIDPSNKGYYKINN\*QVFG 637  
 DB 755 PENLQWYFVYKDGKDSIRLRIRYVEDKQVGLYSRF-EWATKAR-----KNQIQSG 805  
 QY 638 YSM-HFDPEAR-----PLILCDDYPTCTGSOESALLQQLLEIR 676  
 DB 906 YEISEYIPESARYGKKYS--HSFFYYSILDLILQ-----KKABQTIETVPTS 954  
 QY 672 VN-----KLSPFGCKRD--DLFSCLLRHLK 700  
 DB 855 LSIIRNFLNKLQLQDQCKLKNLFDG--KRLK 856  
 RESULT 11  
 US-10-042-143-4  
 ; Sequence 4, Application US/10142143  
 ; Publication No. US20030099567A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: DeAngelis, Paul  
 ; TITLE OF INVENTION: HEPARIN/HEPAROSAN SYNTHASE FROM P. MULTOCIDA AND METHODS OF MAKI  
 ; TITLE OF INVENTION: US-NG SAME  
 ; FILE REFERENCE: 5864, 017  
 ; CURRENT APPLICATION NUMBER: US/10/142,143  
 ; CURRENT FILING DATE: 2002-05-08  
 ; PRIOR APPLICATION NUMBER: 60/289,554  
 ; PRIOR FILING DATE: 2001-05-08  
 ; PRIOR APPLICATION NUMBER: 60/296,386  
 ; PRIOR FILING DATE: 2001-06-06  
 ; PRIOR APPLICATION NUMBER: 60/303,691  
 ; PRIOR FILING DATE: 2001-07-06  
 ; PRIOR APPLICATION NUMBER: 60/313,258  
 ; PRIOR FILING DATE: 2001-08-17  
 ; NUMBER OF SEQ ID NOS: 22  
 ; SOFTWARE: Patent in version 3.1  
 ; SEQ ID NO 4  
 ; LENGTH: 617  
 ; TYPE: PRT  
 ; ORGANISM: Pasteurella multocida  
 US-10-042-143-4

```
Query Match      2.9% Score 115.0 DB 15 Length 617
Best Local Similarity 19.0% Pred. No. 0.16
Matches 130; Conservative 111; Mismatches 207; Indels 236; Gaps 33;

QY 71 APPFFNRILGRPTLQQTENLIKYYTHFLSATLG-GESLIFVFKRKSKEAEG 129
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 7 ATELFKS---GNKDALTLYENIAKYGSESLVKYNIDCKNIT---QSKSKIEED 59

QY 130 SDSTNKSSVTLFTHGLAASYFDRSTLRRHHQIATIAKVTETRG 182
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 59 NISGENKFSVSKLYN-----SISNSESGTKERLGAPLVSILN 93

QY 183 GCQNYNL--DSVSSVLVQSPENKIQLQGLQVL-LPDYLCERTVQAL 227
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 100 TSNTEKFIASINSLLOLYN-----LEVVDYDYSQKFCIASRANSTSKYKIF 153

QY 228 -----SYTACN-----SSEGFI-CRKNQWCHCGKPFEC----- 261
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 154 RLNSNLGTYFAGNTGILKXSGE-IFFQCSDDVCH-HERLEQVALLNKNKNIAVAGAYS 212

QY 262 DICAMSENLRITE-----TWKANSDFEE-----SSEF----- 277
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 213 RLNETONIKVADNKYKSGSLGLGVYRKVPKEIGFFNCTKASDSEFYHRIKYYGNER 272

QY 298 PKNVFL-----NTS-----TIVHLWTMCSNFORR-----VEGLNSMKQ 331
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 273 INVLFLPYNTVREDLSLFQKVEWVDENNIKOKTSDARQNYLHEQKINERKINELKE 332

QY 332 FLKAQKIVKJFSLSKCHK--QPLI-----SLPQRTSTYWLTRIQSFLYCNENGL 382
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 333 TFSFPR--IHDAUFISEKMSKLSNPKIEVYNICSP-----SRKQLOY--TIGV 379

QY 383 LGSFSETHSTCPNDQWCTALPCTVGSASCLTCAPDNTRCGTCNTGYMLSQGLCK 442
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 380 LKQOCDFHYLDQYPEV--PDFIK-KLGRKATVING--QMKES-RDKGKFLJENKLIK 434

QY 443 PEVAESTCHY-----IGFETDLQDJEKYLQKQDR-RIEVKA-FISNDMLNSWFOR 494
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 435 -----ENKGGYIITCCDIRPACYININKINKYNDKAAIGKGIFFPS--RVKVFSS 498

QY 495 SWRRKRLTLKS-----NKYK-SSLVHM-ILGLSLQICLTEN 529
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 489 D---RIVYNFQKPLENDTAVNLGTGVAFVRS-FNKFS-SDREHPQMWDIYSILCKXN 545

QY 530 STEPLUAVYNFGGSHSSEWFPNENSPPOWERTKALPLQCYNWTJLGNKXKXTPF 589
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 546 NILQVCI-----SRPSNWLTDNKN-----TEILPEEFQNRD 577

QY 590 ETVHYLRSR-IKSNQNGNESIY 612
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 578 E-----QSKLLIISNPNQYSSIY 596

RESULT 12
US-09-874-923-22
; Sequence 22, Application US/09874923
; Patent No. US20020081320A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, David C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bhatia, Ajay
; APPLICANT: Coler, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; FILE REFERENCE: 210121.420C8
; CURRENT APPLICATION NUMBER: US/09/874.923
; CURRENT FILING DATE: 2001-06-04

Query Match      2.9% Score 114.5; DB 9; Length 320;
Best Local Similarity 32.3%; Pred. No. 0.061;
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 350 CHKQPLISLPQRTSTYWLTRIQSFLYCNENGLGSFSETHSTCPNDQWCTALPCT 409
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 176 CRLSQACSVPNCKKKEGTGSRJ-----CAECDTGYLSADATSCSSPTTC 223

QY 410 VGDASACITCAEDNTRCGTCNTGYMLSQGLCK 442
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 224 V---SHCNTVNGDSTRCAVNTGYVSDGKCK 253

RESULT 13
US-09-874-923-55
; Sequence 55, Application US/09874923
; Patent No. US20020081320A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, David C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bhatia, Ajay
; APPLICANT: Coler, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; FILE REFERENCE: 210121.420C8
; CURRENT APPLICATION NUMBER: US/09/874.923
; CURRENT FILING DATE: 2001-06-04
; NUMBER OF SEQ ID NOS: 122
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 320
; TYPE: PRT
; ORGANISM: Leishmania major
US-09-874-923-55

Query Match      2.9% Score 114.5; DB 9; Length 320;
Best Local Similarity 32.3%; Pred. No. 0.061;
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 350 CHKQPLISLPQRTSTYWLTRIQSFLYCNENGLGSFSETHSTCPNDQWCTALPCT 409
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 176 CRLSQACSVPNCKKKEGTGSRJ-----CAECDTGYLSADATSCSSPTTC 223

QY 410 VGDASACITCAEDNTRCGTCNTGYMLSQGLCK 442
   ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
Db 224 V---SHCNTVNGDSTRCAVNTGYVSDGKCK 253

RESULT 14
US-09-991-495-22
; Sequence 22, Application US/09991496
; Patent No. US20020169285A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, David C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bhatia, Ajay
; APPLICANT: Coler, Rhea
```

```

; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; FILE REFERENCE: 210121.420C9
; CURRENT APPLICATION NUMBER: US/09/991.496
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 320
; TYPE: PRT
; ORGANISM: Leishmania major
US-09-991-496-22

Query Match      2.9% Score 114.5; DB 10; Length 320;
Best Local Similarity 32.3%; Pred. No. 3.061;
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 350 CHKQPLISLPRQRTSTYWLTRIQSFLYCNENGLGSPSETHSCTCPNDQVWCTAFPCT 409
Db 176 CRUSDACSVNCKKCEGTGSRLLLL-----CAECDGYSLSDATSCSSEFTTQ-----PCE 223
CY 410 VGDASACLTCPDNRTRCGTCNTGYMLSGGLCK 442
Db 224 V---EHCNTCVNGDSIRCAVCNTGYVYSDGKCK 253

RESULT 15
US-09-991-496-55
; Sequence 55, Application US/0999.496
; Patent No. US20020169285A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dilloo, Davin C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bhatia, Ajay
; APPLICANT: Coley, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; FILE REFERENCE: 210121.420C9
; CURRENT APPLICATION NUMBER: US/09/991.496
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 137
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 320
; TYPE: PRT
; ORGANISM: Leishmania major
US-09-991-496-55

Query Match      2.9% Score 114.5; DB 10; Length 320;
Best Local Similarity 32.3%; Pred. No. 3.061;
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 350 CHKQPLISLPRQRTSTYWLTRIQSFLYCNENGLGSPSETHSCTCPNDQVWCTAFPCT 409
Db 176 CRUSDACSVNCKKCEGTGSRLLLL-----CAECDGYSLSDATSCSSEFTTQ-----PCE 223
QY 410 VGDASACLTCPDNRTRCGTCNTGYMLSGGLCK 442
Db 224 V---EHCNTCVNGDSIRCAVCNTGYVYSDGKCK 253

```

Search completed: October 29, 2003, 16:24:46  
Job time : 25.9606 secs



GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.  
OM protein - protein search, using sw model  
Run on: October 29, 2003, 16:06:23 : Search time 15.8412 Seconds  
without alignment  
2045.935 Million cells updates/sec  
Title: US-09-832-129-35  
Perfect score: 4081  
Sequence: 1 K1W5RAGALFSLMALKEW.....CAPKALPKNDYDCTTKLOS 766  
Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5  
Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717  
Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries  
Database : Issued Patents NA.\*  
1: /cgn2\_6/ptodata/2/1aa/5A\_COM3.pep.\*  
2: /cgn2\_6/ptodata/2/1aa/5B\_COM3.pep.\*  
3: /cgn2\_6/ptodata/2/1aa/5A\_COM3.pep.\*  
4: /cgn2\_6/ptodata/2/1aa/5B\_COM3.pep.\*  
5: /cgn2\_6/ptodata/2/1aa/PTCJS\_COM3.pep.\*  
6: /cgn2\_6/ptodata/2/1aa/backfiles1.pep.\*  
Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

				SUMMARIES			
Result No.	Score	Query Match	Length	DB ID	Description		
1	115.5	2.8	930	4	US-09-627-376-7	Sequence 7, Appl 1	
2	114.5	2.8	320	4	US-09-183-861-22	Sequence 22, Appl	
3	114.5	2.8	320	4	US-09-183-861-55	Sequence 55, Appl	
4	114.5	2.8	320	4	US-09-042-765-22	Sequence 22, Appl	
5	114.5	2.8	320	4	US-09-042-765-55	Sequence 55, Appl	
6	114.5	2.8	320	4	US-09-551-974A-22	Sequence 22, Appl	
7	114.5	2.8	320	4	US-09-551-974A-55	Sequence 55, Appl	
8	104.5	2.5	3461	4	US-09-334-283-2	Sequence 2, Appl 1	
9	103.5	2.5	1038	3	US-09-541-782-4	Sequence 4, Appl 1	
10	103.5	2.5	1038	4	US-09-723-823-4	Sequence 4, Appl 1	
11	103	2.5	744	1	US-06-179-461-2	Sequence 2, Appl 1	
12	102.5	2.5	1032	4	US-09-914-259-26	Sequence 26, Appl	
13	102	2.5	1917	4	US-09-044-838-125	Sequence 125, Appl	
14	101.5	2.5	907	3	US-09-930-996A-7	Sequence 7, Appl 1	
15	101.5	2.5	993	1	US-08-183-211-2	Sequence 2, Appl 1	
16	101.5	2.5	993	5	PT-US95-00176A-2	Sequence 2, Appl 1	
17	101.5	2.5	4654	3	US-08-475-515A-84	Sequence 84, Appl	
18	101.5	2.5	4655	3	US-08-652-877-54	Sequence 84, Appl	
19	101.5	2.5	4655	3	US-08-652-877-86	Sequence 86, Appl	
20	101.5	2.5	4655	3	US-08-652-877-88	Sequence 88, Appl	
21	101.5	2.5	4655	3	US-08-652-877-90	Sequence 90, Appl	
22	100.5	2.5	560	2	US-08-553-492-5	Sequence 5, Appl 1	
23	100.5	2.5	1198	3	US-09-245-041-131	Sequence 131, Appl	
24	100.5	2.5	1198	4	US-09-794-236-3	Sequence 3, Appl 1	
25	100.5	2.5	1350	3	US-09-245-041-17	Sequence 17, Appl	
26	100.5	2.5	1429	3	US-09-245-041-130	Sequence 130, Appl	
27	100.5	2.5	2787	3	US-09-245-041-15	Sequence 15, Appl	

28	100	2.5	817	2	US-08-820-170A-28	Sequence 28, Appl	
29	100	2.5	817	3	US-09-053-600-28	Sequence 28, Appl	
30	100	2.5	817	3	US-09-273-565-28	Sequence 28, Appl	
31	100	2.5	817	4	US-09-565-538-29	Sequence 28, Appl	
32	100	2.5	817	4	US-09-661-468-28	Sequence 28, Appl	
33	100	2.5	817	4	US-09-976-165-28	Sequence 28, Appl	
34	100	2.5	829	2	US-08-625-170A-31	Sequence 31, Appl	
35	100	2.5	829	3	US-09-055-699-31	Sequence 31, Appl	
36	100	2.5	829	3	US-09-273-565-31	Sequence 31, Appl	
37	100	2.5	829	4	US-09-565-538-31	Sequence 31, Appl	
38	100	2.5	829	4	US-09-661-468-31	Sequence 31, Appl	
39	100	2.5	829	4	US-09-976-165-31	Sequence 31, Appl	
40	99.5	2.4	1170	1	US-08-313-288B-20	Sequence 20, Appl	
41	99.5	2.4	1211	4	US-09-134-021C-482C	Sequence 482C, Ap	
42	97.5	2.4	993	1	US-08-222-293-4	Sequence 4, Appl 1	
43	97.5	2.4	993	2	US-08-434-878-4	Sequence 4, Appl 1	
44	97.5	2.4	993	5	PT-US95-03718-4	Sequence 4, Appl 1	
45	97	2.4	557	1	US-08-313-288B-16	Sequence 16, Appl	

ALIGNMENTS

Result 1  
US-09-627-376-7  
Sequence 7, Application US/09427376  
Patent No. 6342185  
GENERAL INFORMATION:  
Applicant: Qi, Fengxia  
Inventor: Caulfield, Page  
Title of Invention: MUTACIN I BIOSYNTHESIS GENES AND PROTEINS  
File Reference: JAB-17422/22  
Current Application Number: US/09/627,376  
Current Filing Date: 2001-05-30  
Number of Seq ID Nos: 17  
Software: Patent In version 3.0  
Seq ID No 7  
Length: 990  
Type: PPT  
CGMUSM: Streptococcus mutans  
US-09-627-376-7

Query Match	2.8%	Score 115.5	DB 4	Length 990
Best Local Similarity	18.9%	Pred. No. 0.113		
Matches 194	Conservative 125	Mismatches 270	Indels 265	Gaps 42
QY	119	TTCQITENLIKXVG-----THP-LLSAT-IGRES-TIFVCKKKLSKRRGSSSTNS	169	
DB	139	TLKVANNALQKSNDFWJLCTASHFGLMNSRSDIKEDTV-----KSNQLIDYVINC	190	
QY	170	SS--VTLETHQLAASYFDROST-RLRHHQIASTAIK---VTETRTGPGCGSNYDN-	222	
DB	191	TTEPISYQTLIDIAEKPSQSDDYK-----EYLQTL-KEEPLITELKFLSD----	DNF 241	
QY	223	LUSVSSELVCSNPENIKQOGL--CVLLPDYQCFEFOVAALSYIACNBEGEFICKEN---	276	
DB	242	LQWFIILERDQNNSELLEKLTETIKAMIQDYTDRIEGNNSILALENKMISOIVKANAYL	301	
QY	273	--DQCHQCPKPEPCSCSMQCNKEENLRITETW-KAYNSDFPESDEPKFYKAS----	429	
DB	302	RVLVDHAEKKACHTKSSL-----QNLKVLSSFSFAVNSOKETKNYHEFIRYGVFE	355	
QY	330	--LPMNYFLNTSTIMELNTMDSNFORRYEQLE-NSMKQCLFKAQKIVHKJ-----	FSLSKEC 383	
DB	354	GLVPLQLLNS-----TSGLGPFGYQSTQSVKQNNEDSKNQXIIIEFLCKPKFKALRD	409	
QY	384	HQPGISISPROPTSY-MLTRI-QSFLYCNEN-----GLGGSFSSETHSTCC	429	
DB	409	GKEIILSDDDLKDLAFDTEQQISGLGYCFYKPKSKLELVSSILGVSOMLGNIFGRPHS-KI	467	
QY	429	PKDQVCTAFLEPCTVGDASACITCAPNTRCGTCNTGY-----MLSCGCKCKEVAES	481	
DB	448	PK-----TIVTKNKNYKKEIFTEAYPNTI-TCQINENVYFGFGGNIMVSNEL-KSHQLEL	520	

452 TDHYGFEIDLOQJ-----EMKYLLOKTDRIEVAHIFSNOWMLNWKEDPSKREK 534  
Db 521 ANVITTKEMGINDIYVRATSEEFYKRYKRYK-----IFWNNKX--FNYINGSKLLLEFL 594  
QY 535 JTKSNKYKSSLMVHILGI-----SQQICDCK 561  
Db 575 LEVNSDQJ-NITPITUGSLDSYNHVPALIVKOLIKPETAIRKSEAKTIDSLKNLW- 632  
QY 562 NSTLEPV-----AVVNPFGGSHSSWMPNENEF-----PWERTKJDL 603  
Db 633 NNWPPFVRMYKTDQIIYLDLSRTTDLVLFQSKKSFICILMHSVCTNNTLELVV 692  
QY 604 EL-----QYKWLTL-----GNXKTFEEVHI-----YLR- 630  
Db 693 PFTSDVNAHQIYHVAQNIYLEDSSGSEKIFAYKIYVYKQGTSLQKEYPDLKLYKL 752  
QY 631 -----SRIKSGFNGNE-----SYVERLEFIDPSRNLGYMKNNIOWFG 670  
Db 753 FENLQWFIYRKDGKDSIRLRIRYVEDKQLVQVYSREIWAIRK-----KNVIO:SG 805  
QY 672 YSM-HFDSEAR-----ELILOLDYPTQSGQSALJQILEIRDR 709  
Db 806 YEISEYIPESAPYGGKKYSS:HSFPFYDSLELLO-----KKAETIEVRTS 854  
QY 730 VN-----KLSPPGQRRLL--DLFSCLLRHRK 733  
Db 855 LSIIRMFYMLSLSDOQOKLKNLFDG--KHKLK 866  
RESULT 2  
US-09-183-861-22  
; Sequence 22, Application US/09-83861  
; Patent No. 6365165  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; APPLICANT: Campos-Neto, Antonio  
; APPLICANT: Webb, John R.  
; APPLICANT: Dillon, David C.  
; APPLICANT: Skeiky, Vasir A.W.  
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USEIN THE THERAPY AND  
; NUMBER OF SEQUENCES: 87  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED and BERRY LLP  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: USA  
; ZIP: 98104-7092  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/183,861  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 39/022,765  
; FILING DATE: 12-FEB-1998  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Makl, David J.  
; REGISTRATION NUMBER: 31,392  
; REFERENCE/DOCKET NUMBER: 210121-420C3  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 22:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 320 amino acids  
; TYPE: amino acid  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FRAGMENT TYPE: internal  
US-09-183-861-55

US-09-183-861-22  
Query Match 2.8%; Score 114.5; DB 4; Length 320;  
Best Local Similarity 32.3%; Pred. No. 0.025;  
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;  
QY 383 CHKQPLISLPROPTSTYKWTIRIOSFLYCNENGLGSPSEETHSCPCPNQVYVCTAFLEPCT 442  
Db 176 CRJSDACSVNCKKCTGTGSRLE-----CAECTGYLSLADATSCSSPTTQ-----PCE 223  
QY 443 VGDASACLTCAPENRTRCOTNTGYMLSQGLCK 475  
Db 224 V-----EHQNTGVNGDSTRCAVCTNGYVSDGCK 253  
RESULT 3  
US-09-183-861-55  
; Sequence 55, Application US/09-83861  
; Patent No. 6365165  
; GENERAL INFORMATION:  
; APPLICANT: Reed, Steven G.  
; APPLICANT: Campos-Neto, Antonio  
; APPLICANT: Webb, John R.  
; APPLICANT: Dillon, David C.  
; APPLICANT: Skeiky, Vasir A.W.  
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USEIN THE THERAPY AND  
; NUMBER OF SEQUENCES: 87  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: SEED and BERRY LLP  
; STREET: 6300 Columbia Center, 701 Fifth Avenue  
; CITY: Seattle  
; STATE: Washington  
; COUNTRY: USA  
; ZIP: 98104-7092  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/183,861  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 39/022,765  
; FILING DATE: 12-FEB-1998  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Makl, David J.  
; REGISTRATION NUMBER: 31,392  
; REFERENCE/DOCKET NUMBER: 210121-420C3  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 622-4900  
; TELEFAX: (206) 682-6031  
; INFORMATION FOR SEQ ID NO: 55:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 320 amino acids  
; TYPE: amino acid  
; STRANDEDNESS:  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; FRAGMENT TYPE: internal  
US-09-183-861-55  
Query Match 2.8%; Score 114.5; DB 4; Length 320;  
Best Local Similarity 32.3%; Pred. No. 0.025;  
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;  
QY 383 CHKQPLISLPROPTSTYKWTIRIOSFLYCNENGLGSPSEETHSCPCPNQVYVCTAFLEPCT 442  
Db 176 CRJSDACSVNCKKCTGTGSRLE-----CAECTGYLSLADATSCSSPTTQ-----PCE 223  
QY 443 VGDASACLTCAPENRTRCOTNTGYMLSQGLCK 475

Db 224 V---EHCNTCVNGSDTRCAYCNTGYVYVSDGKCK 253

## RESULT 4

US-09-022-765-22

Sequence 22, Application US/09022765

Patent No. 6375955

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

APPLICANT: Campos-Neto, Antonio

APPLICANT: Webb, John R.

APPLICANT: Dillon, David C.

APPLICANT: Skeiky, Yasar A.W.

TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE THERAPY AND

NUMBER OF SEQUENCES: 87

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED AND BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

City: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent-In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/022,765

FILING DATE: 12-FEB-1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 21021-420C3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 22:

SEQUENCE CHARACTERISTICS:

LENGTH: 320 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-022-765-22

Query Match

Best Local Similarity 2.8%; Score 114.5; DB 4; Length 320;

Patent No. 6375955

Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 383 CHKQPLISLPQRTSTYKLTQISFLYCNENGLGSGSEETHSCPCPDQVYCTAFLPCT 442

Db 176 CRUSDACSVNCKKCEGTGSR-----CAECDTGYSLSDATSCSSPTTQ-----PCE 223

QY 443 VGSASACLTCAPDNTRCTGTCNTGYMLSGKCK 475

Db 224 V---EHCNTCVNGSDTRCAYCNTGYVYVSDGKCK 253

## RESULT 5

US-09-022-765-55

Sequence 55, Application US/09022765

Patent No. 6375955

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

APPLICANT: Campos-Neto, Antonio

APPLICANT: Webb, John R.

APPLICANT: Dillon, David C.

APPLICANT: Skeiky, Yasar A.W.

TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE THERAPY AND

NUMBER OF SEQUENCES: 87

CORRESPONDENCE ADDRESS:

ADDRESSEE: SEED AND BERRY LLP

STREET: 6300 Columbia Center, 701 Fifth Avenue

City: Seattle

STATE: Washington

COUNTRY: USA

ZIP: 98104-7092

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent-In Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/022,765

FILING DATE: 12-FEB-1998

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: Maki, David J.

REGISTRATION NUMBER: 31,392

REFERENCE/DOCKET NUMBER: 21021-420C3

TELECOMMUNICATION INFORMATION:

TELEPHONE: (206) 622-4900

TELEFAX: (206) 682-6031

INFORMATION FOR SEQ ID NO: 55:

SEQUENCE CHARACTERISTICS:

LENGTH: 320 amino acids

TYPE: amino acid

STRANDEDNESS:

TOPOLOGY: linear

MOLECULE TYPE: Protein

FRAGMENT TYPE: Internal

US-09-022-765-55

Query Match

Best Local Similarity 2.8%; Score 114.5; DB 4; Length 320;

Patent No. 6375955

Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 383 CHKQPLISLPQRTSTYKLTQISFLYCNENGLGSGSEETHSCPCPDQVYCTAFLPCT 442

Db 176 CRUSDACSVNCKKCEGTGSR-----CAECDTGYSLSDATSCSSPTTQ-----PCE 223

QY 443 VGSASACLTCAPDNTRCTGTCNTGYMLSGKCK 475

Db 224 V---EHCNTCVNGSDTRCAYCNTGYVYVSDGKCK 253

## RESULT 6

US-09-551-974A-22

Sequence 22, Application US/09551-974A

Patent No. 6500437

GENERAL INFORMATION:

APPLICANT: Reed, Steven G.

APPLICANT: Campos-Neto, Antonio

APPLICANT: Webb, John R.

APPLICANT: Dillon, David C.

APPLICANT: Skeiky, Yasar A.W.

TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE

TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS

FILE REFERENCE: 21021-420C5

CURRENT APPLICATION NUMBER: US/09/551,974A

CURRENT FILING DATE: 2000-04-14

NUMBER OF SEQ ID NOS: 101

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 22

LENGTH: 320

TYPE: PR

ORGANISM: Leishmania major

US-09-551-974A-22

Query Match

Best Local Similarity 2.8%; Score 114.5; DB 4; Length 320;

Patent No. 6500437

Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 383 CHKQPLISLPQRTSTYKLTQISFLYCNENGLGSGSEETHSCPCPDQVYCTAFLPCT 442

Db 176 CRUSDACSVCNCKKCTGTSRL-----CAEDTGYSLSADATSCSPTTQ-----PCE 223

QY 443 VGDASACLTCAPNRRRCGTCTGTYMWSQGLCK 475

Db 224 V-----EHCNCTCNGDSTRCAVNTGYVVSQKCK 253

# RESULT 7

US-09-551-974A-55  
 ; Sequence 55, Application US/09551974A  
 ; Patent No. 6500437  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Reed, Steven G.  
 ; APPLICANT: Campos-Neto, Antonio  
 ; APPLICANT: Webb, John R.  
 ; APPLICANT: Dillon, David C.  
 ; APPLICANT: Skeiky, Yasar A.W.  
 ; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE  
 ; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS  
 ; FILE REFERENCE: 210121.420C5  
 ; CURRENT APPLICATION NUMBER: US/09/551,974A  
 ; CURRENT FILING DATE: 2000-04-14  
 ; NUMBER OF SEQ ID NOS: 101  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 55  
 ; LENGTH: 320  
 ; TYPE: PRT  
 ; ORGANISM: Leishmania major  
 US-09-551-974A-55

Query Match 2.8%; Score 114.5; DB 4; Length 320;  
 Best Local Similarity 22.3%; Pred.No. 0.025;  
 Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 383 CHKQPLISPRQRTSTVWCTRIQSFYCNENGLGFSSETHSCFCNDQVCTAFLECT 442

Db 176 CRUSDACSVCNCKKCTGTSRL-----CAEDTGYSLSADATSCSPTTQ-----PCE 223

QY 443 VGDASACLTCAPNRRRCGTCTGTYMWSQGLCK 475

Db 224 V-----EHCNCTCNGDSTRCAVNTGYVVSQKCK 253

# RESULT 8

US-09-334-220-2  
 ; Sequence 2, Application US/09234220  
 ; Patent No. 6323177  
 ; GENERAL INFORMATION:  
 ; APPLICANT: St. Jude's Children's Research Hospital  
 ; APPLICANT: Curran, Thomas  
 ; APPLICANT: D'Arcangelo, Gabriella  
 ; TITLE OF INVENTION: INTERACTION OF RECEPTOR WITH VERY LOW  
 ; TITLE OF INVENTION: DENSITY LIPOPROTEIN (VLDL) RECEPTOR FOR SCREENING AND  
 ; TITLE OF INVENTION: THERAPIES  
 ; FILE REFERENCE: 2427/GF704  
 ; CURRENT APPLICATION NUMBER: US/09/334,220  
 ; CURRENT FILING DATE: 1999-06-16  
 ; NUMBER OF SEQ ID NOS: 5  
 ; SOFTWARE: FastSeq for Windows Version 3.0  
 ; SEQ ID NO 2  
 ; LENGTH: 346;  
 ; TYPE: PRT  
 ; ORGANISM: Mus musculus  
 US-09-334-220-2

Query Match 2.6%; Score 104.5; DB 4; Length 346;  
 Best Local Similarity 17.3%; Pred.No. 12;  
 Matches 129; Conservative 104; Mismatches 218; Indels 293; Gaps 37;

QY 73 TRYKIIV-----EFGKWKVNNLAV--ERRNFDGSLPLAPAEPRNIRLGRPTLQQT 124

Db 1196 TRFRWKPVSFGSDYDQWAVDDHIIILSEKQK---QVIPV-----NFTLPQ-- 1238

QY 125 ENLIKKYGTHTLSATLGGERSLTIIVFKRKLKRAEGSDATTSRSSVTLTETHCIAASY 184  
 Db 1233 -NPEKPAFDYPMW-----QNSVWLNLANEGMAKN-DSECACTPSAMVFGKS---GGDEF 1289  
 QY 185 FIDRSTLRLHHIQIASTA:KYTETRGPLGCCSYNMD:DNVSSVLVQSPENKIKQLQSLQ 244  
 Db 1289 AVTRDLTJREGYVJQFKL-----IGCTSS--QFSSTAPVJLQYSHD----- 1327  
 QY 245 VLLPYLQERFYQAALSYIACNSEGEFICKENDCHRCGPKPFPECNCPYDIQAMEKLL 304  
 Db 1328 -----AGYSW-----FLKES-CF-----PASAAGCEGNSR 1353  
 QY 305 RITETWAYNSDFEEDPEKLFMKRPMNYFANTSTINHLWTMDSNFORRVEQENSKYKC 364  
 Db 1354 ELSEPTVVTGDFEETWRTTIAEPR-----SLASSKTRFRWIOESSQKQVFP----- 1401  
 QY 365 LFLKAOKIVKRLFSLSKPKCHKQPI:SLPRQRTSTVWLTRIOSFLYCNENGLGFSSETH 424  
 Db 1402 -----FGLGVVISSEPCPS-----YCSRG----- 1421  
 QY 425 SCTCPNDQVYCTAFLPCTVGDASA---CTCAPDKR----- 458  
 Db 1422 -----DCISGVCF--CDLGYTAAOGTCVSN--PNHSEMPDRAPEGKLSPLWKITGGQVGT 1473  
 QY 459 RCGTCTGYML-SCGLCKPE-----VAESTD--HYISFETLDQLE 496  
 Db 1474 GCGTLNDRGSJYFNGLGKREAKTVFLQTRN:SLVOFY:QISGK:SGITYITPRASYESLV 1533  
 QY 497 MKY-----LLQXTERRIEIVHAIFISNDRLNS-----WFDSPWKPXL----- 534  
 Db 1534 VOYSDNGILKHLSELDFMSLEPCILSIDIPRAKT:PTATAFRANQPOHGKHSQWALG 1593  
 QY 535 -----LTKSNKYKSLVHMILGSLQI-CLTKNSTLEPLVAVY 572  
 Db 1594 DVLIGYNDSSQTGFQOKLQGS:CLQANWYR-----IQGGVCIDCLSMDFAL----- 1642  
 QY 573 VNPFGG-SSESSEMFVPMVNSPEDWERTKLDLPLOC-----YNKWTJLGNKWK 620  
 Db 1643 TENIGNPRTAETACDFIVSESSFQWE-----NMNGCKPFPSSAHG:QLOYSUNNGKDWOL 1697  
 QY 621 PFP-----TVH-----IYLRSRKSKNGPNNGNS:YVEPLEF:DPSRNLYVYKNNIQ 667  
 Db 1698 VTECVPTIGCVHVTFSSTYTSERPO----NWRVTVVLPJATNSPRTFRWICTN--- 1750  
 QY 668 VQGYSNHFPDEAT:RDL:LQLDYFY 691  
 Db 1751 ---YTVGADEWALDKRVILASGCFW 1771

# RESULT 9

US-09-541-782-4  
 ; Sequence 4, Application US/09541782  
 ; Patent No. 6264480  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Nislow, Corey  
 ; APPLICANT: Sakowicz, Roman  
 ; APPLICANT: Beraud, Christophe  
 ; TITLE OF INVENTION: Antifungal Assay  
 ; FILE REFERENCE: 1015  
 ; CURRENT APPLICATION NUMBER: US/09/541,782  
 ; CURRENT FILING DATE: 2000-04-03  
 ; NUMBER OF SEQ ID NOS: 10  
 ; SOFTWARE: FastSeq for Windows Version 4.0  
 ; SEQ ID NO 4  
 ; LENGTH: 1038  
 ; TYPE: PRT  
 ; ORGANISM: Saccharomyces cerevisiae  
 US-09-541-782-4

Query Match 2.5%; Score 103.5; DB 3; Length 1038;  
 Best Local Similarity 20.5%; Pred.No. 2;  
 Matches 83; Conservative 76; Mismatches 167; Indels 79; Gaps 20;

```

QY 39 HATSPDWL-LSDKGFHR---SQEYTFVDRSRQGS-TRYKIYRE---FGRKYN--NL 69
DB 363 HITNAMEGJNLQKGLKHQVASTKMDFSRSH:FTILYKHQDELFRISKANLVOL 422
QY 90 A-----VERNFPGSPLPLAPEFRNRLILGRPTLQQ:TEMLKKGTHF----- 136
DB 423 AGSEINRSGALNORAKESGINSGLTLGR-----VINALVKSG-HIFFRESKUTRL 475
QY 137 LSATLGGESLTI FVKRKLKSRAGSDSTNSSVLTLELHQAASVYFDROSTLRAH 136
DB 476 LQDSGGNTKTAJLATTISPAKVTSEETCSLEYASKAKN:KXKPOLGSPFKKIDLVKN: 534
QY 197 HQIATAIKVETRTGP---LGCSNPNLDS-VSSVLVQSPENKICLOG:---QVLAP 248
DB 535 TMLAKIKSDLSLTSKKEG:YXSDHYKXNLNSD:ESYKNEVQEKREIESLTKANLJVK 594
QY 249 DYLOERFVQAALSYIACNSGEFICKENDWC-----HGGPFFECNCFSDICA 298
DB 595 DKLKSK-----ETIOSN---CQIESLKTTHLRAQDLKOKHTEISD 696
QY 299 MEENLBITETWKAYNSDFEE-----SDEPKLF---YKRLPMNYFNTSTIMLWY-D 348
DB 637 FNNKLOK:TEVQMALHDYKRELDLNGKPEMHITKE-KLKSTLFLQJLNTMQGESLQE 696
QY 349 SNFORVEQLNSMKQJFLKAKIVHKLFSLSKSCHKQPLISLPR 393
DB 697 TNOQNLDMIKNEVLTJXRTMOERAEALMY---KOCVKKILNESPK 736

```

# RESULT 10

US-09-723-820-4

Sequence 4, Application US/09723820

Patent No. 6468760

GENERAL INFORMATION:

APPLICANT: Nislow, Corey

APPLICANT: Sakowicz, Roman

APPLICANT: Beraud, Christophe

TITLE OF INVENTION: Antifungal Assay

FILE REFERENCE: 1015

CURRENT APPLICATION NUMBER: US/09/723,820

PRIOR FILING DATE: 2000-11-28

PRIOR APPLICATION NUMBER: 09/541,782

PRIOR FILING DATE: 2000-04-03

NUMBER OF SEQ ID NOS: 10

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 4

LENGTH: 1038

TYPE: PRT

ORGANISM: Saccharomyces cerevisiae

US-09-723-820-4

Query Match 2.5%; Score 103.5; DB 4; Length 1038;  
Best Local Similarity 20.1%; Pred No. 2;  
Matches 83; Conservative 76; Mismatches 167; Indels 79; Gaps 20;

```

QY 39 HATSPDWL-LSDKGFHR---SQEYTFVDRSRQGS-TRYKIYRE---FGRKYN--NL 89
DB 363 HITNAMEGJNLQKGLKHQVASTKMDFSRSH:FTILYKHQDELFRISKANLVOL 422
QY 90 A-----VERNFPGSPLPLAPEFRNRLILGRPTLQQ:TEMLKKGTHF----- 136
DB 423 AGSEINRSGALNORAKESGINSGLTLGR-----VINALVKSG-HIFFRESKUTRL 475
QY 137 LSATLGGESLTI FVKRKLKSRAGSDSTNSSVLTLELHQAASVYFDROSTLRAH 136
DB 476 LQDSGGNTKTAJLATTISPAKVTSEETCSLEYASKAKN:KXKPOLGSPFKKIDLVKN: 534
QY 197 HQIATAIKVETRTGP---LGCSNPNLDS-VSSVLVQSPENKICLOG:---QVLAP 248
DB 535 TMLAKIKSDLSLTSKKEG:YXSDHYKXNLNSD:ESYKNEVQEKREIESLTKANLJVK 594
QY 249 DYLOERFVQAALSYIACNSGEFICKENDWC-----HGGPFFECNCFSDICA 298

```

```

DB 595 DKLKSK-----ETIOSN---CQIESLKTTHLRAQDLKOKHTEISD 696
QY 299 MEENLBITETWKAYNSDFEE-----SDEPKLF---YKRLPMNYFNTSTIMLWY-D 348
DB 637 FNNKLOK:TEVQMALHDYKRELDLNGKPEMHITKE-KLKSTLFLQJLNTMQGESLQE 696
QY 349 SNFORVEQLNSMKQJFLKAKIVHKLFSLSKSCHKQPLISLPR 393
DB 697 TNOQNLDMIKNEVLTJXRTMOERAEALMY---KOCVKKILNESPK 736

```

## RESULT 11

US-09-179-481-2

Sequence 2, Application US/08179481

Patent No. 5624916

GENERAL INFORMATION:

APPLICANT: CARRAWAY, KERNIT L.

APPLICANT: CARRAWAY, CORALIE A.

APPLICANT: FREIGEN, NEVIS L.

TITLE OF INVENTION: ONCOGENE PRODUCT LIGAND

NUMBER OF SEQUENCES: 125

CORRESPONDENCE ADDRESS:

ADDRESSER: CUSHMAN, DARBY & CUSHMAN

STREET: 1100 NEW YORK AVENUE, N.W.

CITY: WASHINGTON

STATE: D.C.

COUNTRY: U.S.A.

ZIP: 20005-3918

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Release Release #1.25

CURRENT APPLICATION DATA: US/08/179,481

APPLICATION NUMBER: US/08/179,481

Filing DATE: 28-DEC-1993

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/922,521

Filing DATE: 30-JUL-1992

ATTORNEY/AGENT INFORMATION:

NAME: KOKULIS, PAUL N.

REGISTRATION NUMBER: 16,773

REFERENCE/DOCKET NUMBER: 200702/UM92-C8C1P

TELECOMMUNICATION INFORMATION:

TELEPHONE: (202) 561-3000

TELEFAX: (202) 622-0944

TELEX: 5714627 CUSH

INFORMATION FOR SEQ ID NO: 2:

SEQUENCE CHARACTERISTICS:

LENGTH: 744 amino acids

TYPE: amino acid

TOPOLOGY: linear

MOLECULE TYPE: protein

US-09-179-481-2

Query Match 2.5%; Score 103; DB 1; Length 744;  
Best Local Similarity 21.4%; Pred No. 1,3; Mismatches 128; Gaps 26;  
Matches 97; Conservative 66;

```

QY 71 FSTRYKIVYAEFGWKVNNLAVERRNFGSPL-PLAPEFRNRL-----LGRPTLQQIT 124
DB 266 YSSKIQAYKSGREQWPLRSPTLRMSVSASPTSAVAFELFENGSLHVCNIPRTVL---- 341
QY 125 ENLKKYGFHLLSLTGGESLTI FVKRKLKSRAGSDSTNSSVLTLELHQAASV 164
DB 342 ELIARDVKTN--LSSVL-QPETAQCFCKECCLYNETSKGNSSTEV-----SC 389
QY 185 FDEEDSTLRLHIGLQASTAVKVTIRTGPLGCSNVDNLDSVSSVLVQSPENKICLOG-- 242
DB 390 KDGKSGFGRJCEHCK-----DCTEP--C--FPNVDCIPGKGCACPPNMTGDSRH 436
QY 243 -LQVLLPOYL-QERF--VQAALSYIACNSGEFICKENDWCWCHGPKFPCNC----- 291

```

```
DB 437 CVAVEISEFCQNSQPNVNYCHGHGCTGGPPDQQT -CTCAPATNGCTAGNFT 432
QY 292 ----PSMD-CAMEENLRITETWKAYKSPFESDREKJFMKLEPMYPLNSTI---- 341
DB 494 PIYKRELFRTI--TLSREBENASNADYNAS--VANVLENCKRAFLSNRVELIITS 548
QY 342 -----MHWTMSNFOR-----VEQENSKQFL-----KACK 371
DB 549 PGAPVLGKTHHKKVSHKYPKPGPLIHVNNQUSAVNEAFILQARCKRKSSEAK 608
QY 372 VHKLFSLKSKCHKOPJLSLPROCTTYWTRQSPFLVCHWENGLLGSSEBETHSCCPND 431
DB 609 NV-RFPIS-RADVQGMALN-----LSVLDVFTC--GVYK3-----VHWYSPQD 652
QY 432 QNVCTAPLPCTVG-----DASACLICA 453
DB 652 GVTCVS--PCEGYCHNGCKHLPDGPQC-TCA 682

RESULT 12
US-09-914-259-26
; Sequence 26, Application US/09914259
; Patent No. 6495336
; GENERAL INFORMATION:
; APPLICANT: Makowski, Lee
; APPLICANT: Hyman, Paul
; APPLICANT: Williams, Mark
; TITLE OF INVENTION: STAGED ASSEMBLY OF NANOSTRUCTURES
; FILE REFERENCE: 8471-010-999
; CURRENT APPLICATION NUMBER: US/09/914,259
; CURRENT FILING DATE: 2000-11-21
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 1032
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-914-259-26

Query Match 2.58; Score 102.5; DB 4; Length 1032;
Best Local Similarity 17.68; Pred. No. 2.5;
Matches 130; Conservative 104; Mismatches 253; Index 253; Gap# 27;

QY 58 OBYTDFVDRSGFSGRYKYRFFGQKYNLAVERNF-SSP-R-LAPFSPNHLIGER 117
DB 344 KYEKEKEK-KAKETIAKLEASLWRGENVPTERLAGBEAALGACLCBETPVNDS 403
QY 118 PTLOQITENJRKYGTHFLISA-LGGRES-TIFVDKRR-KSKRAEGSDSTNSSSVLELT 177
DB 404 SIVVRIAPERQKY-----EEET-----RLYKQLDDKDDSEINQOSQLIEK 445
QY 178 HQ-----LAASYFIDSDTLRLHHQIASRAIKVTTETRTFLGCSNYNLLSVSYL 230
DB 446 KQKVLDBEELJVSIRGNEVYQRELSHQENDAAK-----DEVAEV- 487
QY 231 VQSPENRIQGGQVLLPYDQLGRFVQAALSY-LACNSEGEFFICKENDCKCHGKPKPKCN 290
DB 488 -----QALBELAVNYDCK-----SCVESEKSCQVQ-----LVDELS 520
QY 291 CPSMIOQAMENLRITET-----WKAYNSDFESEDFFKFMK-----EKNYNT 586
DB 521 QKVATMLSLSELQRLQVSGHOKRP-AEVUNGMLKMLDSFSGVVGNGEIKLPV----- 514
QY 319 STMHWLWMDSNFQRYEGLNSKQFLKAO---KIVHKLFLSKSGCHKQCLISLPQ 394
DB 575 -----EISGAIEEFTVARLYISKIKSEVSVYKRCQ----- 607
QY 395 RTSTYWTRIQSPLYCNENGLGSPSEBETHSCCPNDQVVCCTAFPLCTVGDASACTCAP 454
DB 608 -----LEN-QVSECHKRMVETGRE-SSCQLIIS 634
QY 455 DNRTRCGTCTGYMLSGCLCKPEVAESTDHYIOPETDLOJLEKXYLLCKTDRIEIVHAIF 514
```

```
DB 455 QHEAKIRSL-TEYQSVFUKKHEBESYD-----SUSDELAJQOJET-----WHEVA 481
QY 515 ISK-----CMKNSWFPDPSWRKRMJUTLKSNKYKSSLYHMLJLSLQICL 559
DB 582 LKNSBPDTCQADQVFKALBLONESHREAHHPQLARLROFINE-KKTIJELKLNCKLQD 740
QY 560 TKXSTTEPVLAVYVRFQSGHSESWFNPVNENSPPFWEATKUL-----FLQCYNK 610
DB 741 -----ELEKLOALYKELKSEFEKSTKJQELTFLYERHEGSKOLKGLBETVARRIQ 792
QY 611 TLGLNKKWTFETVHLYLSRKSNG---PQNSLSYVEPLEFDPSNGLGYKINRIQ 667
DB 793 --TDRKLRKJFVQCV---TTPVKSAEMEPDSSGHSQ-----KKKISFLF-NWDE 838
QY 668 VFGYSNHFDPFAIRD--LQLDYFYTGSSQDSALJLLEIRDRVNKLSPQPRLDLFSCD 727
DB 839 -----QJTKVKHKLVRDNA-----DJRCPLPK----- 860
QY 728 LRHRLKLTSTSEVVRSSALQ 747
DB 861 LEXRLRATAERVKALEGAK 880

RESULT 13
US-09-004-938-125
; Sequence 125, Application US/09004838
; Patent No. 6350933
; GENERAL INFORMATION:
; APPLICANT: Michemore, Richard W.
; APPLICANT: Sner, Kathy
; APPLICANT: Meyers, Blake
; TITLE OF INVENTION: Procedures and Materials for
; TITLE OF INVENTION: Conferring Pest Resistance in Plants
; NUMBER OF SEQUENCES: 140
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Townsend and Townsend and Crew LLP
; STREET: Two Embarcadero Center, Eighth Floor
; CITY: San Francisco
; STATE: California
; COUNTRY: USA
; ZIP: 94111-3834
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/004,838
; FILING DATE: 09-JAN-1998
; CLASSIFICATION: 600
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/781,734
; FILING DATE: 10-JAN-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Eichert, Gregory P.
; REGISTRATION NUMBER: 36,440
; REFERENCE/DOCET NUMBER: 023C70-078910US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 576-0200
; TELEFAX: (415) 575-0300
; INFORMATION FOR SEQ ID NO: 125:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1817 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FEATURE:
; NAME/KEY:
; LOCATION: 1..1817
; OTHER INFORMATION: /note= "RG2S deduced sequence"
US-09-004-938-125
```

Query Match 2.5%: Score 102; DB 4; Length 1817;  
Best Local Similarity 18.9%; Pred. No. 7.2;  
Matches 168; Conservative 122; Mismatches 261; Indels 320; Gaps 45;  
QY 41 TSPF-----DWJ-----LSDGGRHRSOEYDFVDRGRQGFSTFYKIYRFGKVNJA 90  
DB 215 TOPFAICAIADYJGQLNEXTKARADKLREWKNSDGGTKFLLVLP-DWQL----- 259  
QY 91 VERNFLOSPULAPAFPR-----NIPLLGR----- 116  
DB 270 VDLEDIGLSPFNQVDFVLTISRDSQVCTMNGVEAKS-INVELLEABAGSLFQGFVE 329  
QY 117 --RPTLOITENIKKYTHYTHLLSATJGGBESLIFVYDKRKLSPRAGSSSTNNSVTL 174  
DB 330 TSEPLQIGIDVRKCC-----GJFAIKTACTLNRKKAWKRA----- 371  
QY 175 BTLHGLAASYFIDRSTLRLHHIQIATAIKVETETRGPLGCNRYNL-----RSVSFVAV 231  
DB 372 -----LSRIEHYDIHNVAPKVET-----SYNMQEEETKSTFLM 406  
QY 232 -----CSBNKIQLOGVLLFDYLO-----EFVDAALSYACNSEGE 270  
DB 407 CGLEFEDFDIPTIELMYRGWGLKFDRYVTTPEARTPLNTEBVAQTNL----- 458  
QY 271 FICKENDWC-----HCGKFPBC-----NCPSYGICQAYEENLRIETWYA 312  
DB 457 -JIESCDVGVKXNHLVAFVUGXSEVEHASIVNHGNMPKWTENDITSCKRLSTLTKS 515  
QY 313 YNSDFEEDERKLEKRLPMRYLNTSTVHLWTMDSNF-----GRVYQDENSMMKQLFIKA 369  
DB 516 -----YSKPGDGKPPNMLLXNHGKSLRFPDPFYEGVE----- 551  
QY 370 OKIVKLPESLKRCHKQPLSL-PRORTSTWLTQISFLYONENGLJGSPSEETHCTC 428  
DB 552 -----KLRVSYDNMKYPLPLAPSCSN-----EVJHLTXC-----SEKYPQCS 593  
QY 429 -----PNDQVWCTA-----FLPTVQ-----DASACLTGAPDKRTRGCTGNTGYMQLSQ 471  
DB 594 IONSJNLEVLSEFANSEIEWLSSTVRLKXLRILDLRF-----DGLRIBO 636  
QY 472 GLCKPEVAESTDHYISPTDQDLEKYLKONTDRIEVAHFISNMYRLNSWDFSNR 570  
DB 639 GVJX-SLVKLEBYIGNASGFIDDCNEMABRSOKLSALETAFNNKAEVKNMSPFHLR 697  
QY 531 KKMJ-----JTKSNKYKSSJVMHILJLSLOICLTKNSTLBPVJ-----AYVN 574  
DB 698 FKISVGRSFGDGNVXSSHYEN-----MLQVTKRGVLSKKNGLFKTKVLFLS 749  
QY 575 PFGGSHSEWPN-----PVKNSEFPDWBRTKLDLPQC-----VNMTLTLGNKKWTFETVH 626  
DB 749 VHGMDLEDVEVKSTHPTOSSFCN-----LKVLIIISKVELRYLPLKLNAN-----TJSRLH 802  
QY 627 IVL-----RSR-KSNKGNPNESYYEPLEFDPSR--NLSGMKNNIOVFGYSNHPDEPA 679  
DB 803 LEVCECENMEZHTGICGEEITTPKLFUSLQPKJSSL-CHNVNIIGL-----PHL 856  
QY 680 FRLITQ-----LDVPTGSGQDSAL-----LOLLETADRVN-----KLSPPGO 718  
DB 857 V-DLLIKGPGGTVIYPONKLTSSLSKESVVPKLETLCIDDXENBEIWPCELSGCEK 915  
QY 719 ---RRDLFSC-----LJRHRLKJSTSEVVRIOQA-CAFNKL 753  
DB 916 VLKREIKVSSCKLVNLPNPNVSLJHLEELKKNKCSIES---LKNIDL 963

## RESULT 14

US-08-930-996A-7  
; Sequence 7, Application US/08930996A  
; Patent No. 6100449  
; GENERAL INFORMATION:  
; APPLICANT: FUJIRI, Robert  
; APPLICANT: ESHEB, Yuval

APPLICANT: ORI, Naomi  
APPLICANT: PARAN, Ilan  
APPLICANT: ZAMIR, Daniel  
TITLE OF INVENTION: A GENE FAMILY FROM THE 12 FUSARIUM RESISTANCE  
TITLE OF INVENTION: LOCUS OF TOMATO AND USE THEREOF FOR TRANSFORMATION AND  
TITLE OF INVENTION: SELECTIVE BREEDING OF TOMATO AND RELATED PLANTS  
NUMBER OF SEQUENCES: 12  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: BROWDY AND NEIMARK  
STREET: 419 Seventh Street, N.W., Suite 300  
CITY: Washington  
STATE: D.C.  
COUNTRY: USA  
ZIP: 20004  
COMPUTER READABLE FORM:  
MEDIA TYPE: Floppy disk  
OPERATING SYSTEM: IBM PC compatible  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/930,996A  
FILING DATE: 09-DEC-1997  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: PCT/US96/05272  
FILING DATE: 15-APR-1996  
PRIORITY APPLICATION DATA:  
APPLICATION NUMBER: IL 113,373  
FILING DATE: 13-APR-1995  
INFORMATION FOR SEQ ID NO: 7:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 907 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-930-996A-7

Query Match 2.5%: Score 101.5; DB 3; Length 907;

Best Local Similarity 18.0%; Pred. No. 2.5;  
Matches 118; Conservative 93; Mismatches 198; Indels 255; Gaps 30;

QY 203 TAIKVTETRTGJ-----GCSNYMCLDSVSVY----- 230  
DB 75 SAVQVETETKALLVRRFRREQRTETVRRY-SCFGCAQVKLCKKVSAILKSGELRERSE 134  
QY 231 -VQSPENKQLQGLQVLJPEYL-QERFYCAALSYIACNSE----- 268  
DB 135 AKTGGSTQVTCREIPIDSVVGNTHMEQVLEFLUSEEERGIICVYGGVGKTYLQNS 194  
QY 269 --GERTICKEND---CWCHCGKFPKPCNCP-----SMQIQAEEN----- 302  
DB 195 INNELITKGQYDVLIKVQMSREFGECTIQQAVGARLGLSMDEKETGENRALKIYRALRQ 254  
QY 303 ---LURITETWAKYNSDFEESDEFKLFYKR-----JPMNYFLNTSTIMHLWTNDSNFORRY 355  
DB 255 KRFLLGLDDVW-----BEIDLEKTVPRPDREKKCKVMFTTSIALCNNGNAGYKLRV 307  
QY 356 EOLNSMK-QLF-----KACKIVKHLFSLSKRCHKCPLI-----SLPRQRTSTY 399  
DB 303 EFLEKKHAELECSKWKVKDLLESSIRRLAE-LVSKCGGLPLALITIGGAMAHRETEEE 367  
QY 400 W-----JTR-----IOSELYCN-ENGLLOS-----FSEETHSCTCPN-- 430  
DB 368 WTHASEVLTRFPAEMKGNVVPALLKFSYDNLESOLLRSCLFYCALPPEE-HSIEIBQLV 426  
QY 431 DQVVTATFLPCTVGDASACLTGAPDRTRGCTGNTGYM-SCGLCKPEVAESTDHYIGET 490  
DB 427 EYWGSGFLTSSHG-----VNTIYKGYFL----- 450  
QY 491 DQDLEMYKYLCKTDRR-EVHAIFISNDMLNSKF-----DPS----- 528  
DB 451 -ICDLKKAACLETSGEKTQVKXNVERSFPAL--HWASEQGYKELJLVSPSMGHTAPKA 507

```

QY 529 ---NRKMLLTAKSKNYKSSLVHILGLSLGICLTCTKSTLEPLAVYVNFSSSSSKREY 586
DB 508 ENMROAGVSLDNRITQLEPEKLIQKITTLCQNSLKRI -----PTGRFH-----M 554
QY 587 P-----WNSEFMWERTKDLPL--LQYNNWT--LQNK-----LQNK----- 619
DB 557 PVLRLVLDLSP--SITIP--SIRKVLVSLHLSMGTAKISVLFGDGNLRKLKHLQRTVFL 616
QY 618 -----WKTFFTHVHYERS---RKSNFNGNESIYEEFLHFIDPSRLG 659
DB 617 QTPRDAICWLSKLEVLNIVSYAGWELQSGEDAEELGACILEYLENLTG 670

RESULT 15
US-08-183-211-2
; Sequence 2, Application US/08183211
; Patent No. 5618709
; GENERAL INFORMATION:
; APPLICANT: Alan M. Gewirtz, Donald Small, Curt J. Givin.
; TITLE OF INVENTION: ANTISENSE OLIGONUCLEOTIDES
; TITLE OF INVENTION: SPECIFIC FOR STR-1 AND METHOD FOR
; TITLE OF INVENTION: INHIBITING EXPRESSION OF THE STR-1 PROTEIN
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSER: SEIDEL GONDA LABORATORIA & MONACO
; STREET: Suite 1800, Penn Center Plaza
; CITY: Philadelphia
; STATE: Pennsylvania
; COUNTRY: U.S.A.
; ZIP: 19102
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: MS-DOS
; SOFTWARE: MergPerfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/183,211
; FILING DATE:
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Vcnago, Daniel A.
; REGISTRATION NUMBER: 30,480
; REFERENCE/DOCKET NUMBER: 3957-15
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (215) 568-5383
; TELEFAX: (215) 568-5549
; TELEX: No. 5618709e
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 993 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
US-08-183-211-2

Query Match 2.5%; Score 101.5; DS 1; Length 993;
Best Local Similarity 19.3%; Prod. No. 2.0; Indels 183; Gaps 39;
Matches 119; Conservative 76; Mismatches 237;

QY 169 SSSVTLTLRLQLAAS---VFIDRSTLRRLRHQ-----IATAIKVETETGRG----- 215
DB 86 SASITQVLVDAPGN'SCLWVFKHSLN'CPHEDLQNRGVSWILKXTETQAGEVLLPI 145
QY 216 --GCSNYNLDVS-----SVLVSPENKIO:QGLQVLLPDYLOSPFVQAAALVIANG 267
DB 146 QSEATNYTLFTVIRNTLVYTLRRPYFRKMENQALVCISSEVPSPIVE-----WVLQDS 201
QY 268 EGEFICKE-----NDCWCHCGKPK-----PCNCRISM 294
DB 202 QGE-SCKEESPAVVKKEKVLHLPFTDIRCCARNEUGRECRLFTIDLNQTPQTILFQJ 260

```

```

QY 235 DIOAKPENLRATE-----TWKAYNSDEESDEPKLFMKRLDMKVFELNTSTINHLN 345
DB 261 PLKVGEPQMPICKAVNRHGPQ:TWELNKALEBGNVPEY-----SYSTNRKTRILF 314
QY 346 TMSNSFQPR---VEQDENSVKQCF--KAQKIVHKLF-----SLSKRCHKQPLI 389
DB 315 AFVSSVARNDTYTTCCSSSKHPSQSALVTVKGFINNATNSSSDYELDQYEFCSVRFK 374
QY 390 SDFQRPSYWLTRIOSFYONENGL-----LGSFSEETHS-----CTCPNDQVCTAP 438
DB 375 AVPCIRCT--WTFSRKSF-PCBOKGLONGYS:SKFCNHHKQCPQEVTHAAENDDAQPTKM 431
QY 439 LPCTVGDASACLTCAQNRTRCGTCNTGYMS-----QGLCKPEVABSTDHVIGFE 489
DB 432 FTNIRKFCVJAEASASQASC--FSGGYPLSNWTKKCSKSPNCTEETEGVKN----- 484
QY 490 TDQCLEMKYLQKTDRT:EVHAIFISNDVRLNSWFDPSWRKEMLLTLK-SNRKYSLSLVH 548
DB 485 -----PKAURKV-----FGQWVSSS-----TLNMSAL:KGFIAVK 513
QY 549 MLLGLSLQICLTKNS---TLEPVJAYVNVFPGSHSESWMFVNVNENSFPDWBRTKLDLPJ 605
DB 514 -----CCAYNSLGTSCETILLNSPGFF-----PFIQCNISFYATIGYCL-J 553
QY 606 QCYNWTLLTQNKWKTFEVRVHILRSKIKSNGNPNESY-----YE-PLER-DPSRNLG 659
DB 554 FIVVLTLLICHKYKKQPR--YESOLOMVOVTGSSONEYFYVDJFREYED:KWEFFRENJE 611
QY 660 YKKNINQVFGYSMH 674
DB 612 FGKVLGSGAPGKVMN 626

```

Search completed: October 29, 2003, 16:18:42  
Job time : 19.8412 secs



GenCore version 5.1.6  
 Copyright (c) 1993 - 2003 CompuGen Ltd.  
 CM protein - protein search, using sw model  
 Run on: October 29, 2003, 16:13:29 ; Search time 25.0394 Seconds  
 without alignments:  
 5235.672 Million cell updates/sec

Title: US-09-832-129-35  
 Perfect score: 4381  
 Sequence: 1 MWRSRAGAEFLSLVALNEW.....QAFNAKLPTXNDYDTTKLS 766

Scoring table: BLOSUM62  
 Gapop 10.0 , Gapext 0.5

Searched: 642050 seqs, 17146364 residues

Total number of hits satisfying chosen parameters: 642250

Minimum DB seq length: 0  
 Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
 Maximum Match 100%  
 Listing first 45 summaries

Database : Published Applications AA:  
 1: /cgn2\_6/ptodata1/pubpaa/US07\_PUBCOMB.pep.\*  
 2: /cgn2\_6/ptodata1/pubpaa/US06\_PUBCOMB.pep.\*  
 3: /cgn2\_6/ptodata1/pubpaa/US06\_NEW\_PUB.pep.\*  
 4: /cgn2\_6/ptodata1/pubpaa/US06\_PUBCOMB.pep.\*  
 5: /cgn2\_6/ptodata1/pubpaa/US07\_NEW\_PUB.pep.\*  
 6: /cgn2\_6/ptodata1/pubpaa/US08\_PUBCOMB.pep.\*  
 7: /cgn2\_6/ptodata1/pubpaa/US08\_NEW\_PUB.pep.\*  
 8: /cgn2\_6/ptodata1/pubpaa/US08\_PUBCOMB.pep.\*  
 9: /cgn2\_6/ptodata1/pubpaa/US09\_PUBCOMB.pep.\*  
 10: /cgn2\_6/ptodata1/pubpaa/US09\_PUBCOMB.pep.\*  
 11: /cgn2\_6/ptodata1/pubpaa/US09\_PUBCOMB.pep.\*  
 12: /cgn2\_6/ptodata1/pubpaa/US09\_NEW\_PUB.pep.\*  
 13: /cgn2\_6/ptodata1/pubpaa/US10\_PUBCOMB.pep.\*  
 14: /cgn2\_6/ptodata1/pubpaa/US10\_PUBCOMB.pep.\*  
 15: /cgn2\_6/ptodata1/pubpaa/US10\_PUBCOMB.pep.\*  
 16: /cgn2\_6/ptodata1/pubpaa/US10\_NEW\_PUB.pep.\*  
 17: /cgn2\_6/ptodata1/pubpaa/US10\_NEW\_PUB.pep.\*  
 18: /cgn2\_6/ptodata1/pubpaa/US10\_PUBCOMB.pep.\*

pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

Result No.	Score	Query Match	Length	DB ID	Description
1	4081	100.0	766	11	US-09-832-129-35
2	1550	38.0	378	9	US-09-854-761-43251
3	1027.5	25.2	379	9	US-09-854-761-43222
4	327	8.0	78	9	US-09-854-761-38031
5	299.5	7.3	101	12	US-10-231-47-371
6	213	5.4	69	8	US-09-854-761-38114
7	123	3.0	709	9	US-09-874-923-121
8	123	3.0	709	0	US-09-991-496-121
9	117	2.9	617	15	US-10-142-143-2
10	115.5	2.8	990	4	US-10-547-676A-7
11	115	2.8	617	15	US-10-142-143-4
12	114.5	2.8	320	9	US-09-874-923-22
13	114.5	2.8	320	0	US-09-991-496-22
14	114.5	2.8	320	10	US-09-991-496-22
15	114.5	2.8	320	10	US-09-991-496-55

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	4081	100.0	766	11	US-09-832-129-35
2	1550	38.0	378	9	US-09-854-761-43251
3	1027.5	25.2	379	9	US-09-854-761-43222
4	327	8.0	78	9	US-09-854-761-38031
5	299.5	7.3	101	12	US-10-231-47-371
6	213	5.4	69	8	US-09-854-761-38114
7	123	3.0	709	9	US-09-874-923-121
8	123	3.0	709	0	US-09-991-496-121
9	117	2.9	617	15	US-10-142-143-2
10	115.5	2.8	990	4	US-10-547-676A-7
11	115	2.8	617	15	US-10-142-143-4
12	114.5	2.8	320	9	US-09-874-923-22
13	114.5	2.8	320	0	US-09-991-496-22
14	114.5	2.8	320	10	US-09-991-496-22
15	114.5	2.8	320	10	US-09-991-496-55

15	136.5	2.6	358	15	US-10-125-692-8	Sequence 8, Appli
17	135.5	2.6	1379	12	US-10-235-219-5	Sequence 5, Appli
18	104	2.5	501	15	US-10-142-143-17	Sequence 17, Appli
19	102.5	2.5	1032	12	US-10-09C-608A-26	Sequence 26, Appli
20	102.5	2.5	4545	9	US-09-873-401-2	Sequence 2, Appli
21	101.5	2.5	1007	11	US-09-957-005-9	Sequence 9, Appli
22	100.5	2.5	1198	12	US-09-993-959-3	Sequence 3, Appli
23	100.5	2.5	1350	10	US-09-893-238-17	Sequence 17, Appli
24	100.5	2.5	2787	10	US-09-893-238-15	Sequence 15, Appli
25	100	2.5	681	12	US-10-354-358-34	Sequence 34, Appli
26	100	2.5	617	10	US-09-976-165-28	Sequence 28, Appli
27	100	2.5	817	12	US-10-342-276-28	Sequence 28, Appli
28	100	2.5	829	10	US-09-976-165-31	Sequence 31, Appli
29	100	2.5	829	12	US-10-342-276-31	Sequence 31, Appli
30	100	2.5	930	11	US-09-866-050A-636	Sequence 636, Appli
31	100	2.5	1548	15	US-10-180-903-2	Sequence 2, Appli
32	99.5	2.4	466	9	US-09-925-301-1047	Sequence 1047, Ap
33	99.5	2.4	1152	12	US-09-919-653-1	Sequence 1, Appli
34	99.5	2.4	1170	12	US-10-021-660-114	Sequence 114, App
35	99.5	2.4	1170	12	US-10-008-093-2	Sequence 12, Appli
36	99.5	2.4	1170	15	US-10-020-141-12	Sequence 2, Appli
37	99.5	2.4	1170	15	US-10-017-721-2	Sequence 644, App
38	99	2.4	930	11	US-09-866-050A-644	Sequence 136, App
39	99	2.4	1500	12	US-09-870-759-136	Sequence 136, App
40	99	2.4	1500	12	US-09-751-708A-136	Sequence 136, App
41	99	2.4	4128	12	US-10-205-194-1	Sequence 1, Appli
42	98	2.4	624	12	US-10-012-585-7669	Sequence 7669, Ap
43	98	2.4	798	10	US-09-978-249-8	Sequence 8, Appli
44	97	2.4	1172	10	US-09-622-682-2	Sequence 2, Appli
45	96.5	2.4	1480	12	US-10-289-776-7	Sequence 7, Appli

## ALIGNMENTS

RESULT 1  
 US-09-832-129-35  
 Sequence 35, Application US/09532129  
 Publication No. US20030027297A1  
 GENERAL INFORMATION:  
 APPLICANT: Fiscella et al.  
 TITLE OF INVENTION: 19 Human secreted proteins  
 FILE REFERENCE: P20452  
 CURRENT APPLICATION NUMBER: US/09/832,129  
 PRIORITY FILING DATE: 2000-04-11  
 PRIOR APPLICATION NUMBER: PCT/US00/28664  
 PRIOR FILING DATE: 2000-10-17  
 PRIOR APPLICATION NUMBER: 60/163,085  
 PRIOR FILING DATE: 1999-11-02  
 PRIOR APPLICATION NUMBER: 60/172,411  
 PRIOR FILING DATE: 1999-12-17  
 NUMBER OF SEQ ID NOS: 70  
 SOFTWARE: Patent In Ver. 2.0  
 SEQ ID NO 35  
 LENGTH: 766  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-09-832-129-35

Query Match	100.0%	Score 4081	DB 11	Length 766
Best Local Similarity	100.0%	Prod. No. 0		
Matches 766	Conservative 3	Mismatches 0	Indels 0	Gaps 0
QY	1	MWRSRAGAEFLSLVALNEWIALSHCNWLAVAASQDHATSPDWLLSKGPHRSQY	60	
DB	1	MWRSRAGAEFLSLVALNEWIALSHCNWLAVAASQDHATSPDWLLSKGPHRSQY	60	
QY	61	TFVDRSQSTGYKIYREGRKVNLAVERNFUGSLPLAPEFRNRLJGRPTL	120	
DB	61	TFVDRSQSTGYKIYREGRKVNLAVERNFUGSLPLAPEFRNRLJGRPTL	120	
QY	121	COITENLIKKGTHFLLSATIGSESITIFVCKSKSKRAEGSSTINSSSVTLTLOL	180	

121 QCTENLKKYKTHFLSATLGGESLTFVQKRLSKRAEQSDSTTSSSVTLFLHCL 130  
CY 181 AASYFIDROSLRRHGHGIASTAKVTETRTPLGCSNYHLISYSHVQSSENKIC 240  
DB 181 AASYFIDROSLRRHGHGIASTAKVTETRTPLGCSNYHLISYSHVQSSENKIC 240  
CY 241 QGLQVLLPYQERFVQAALSYIACKNSEGERICKENDCKCHGKFPFCNCPSPDIOAYE 300  
DB 241 QGLQVLLPYQERFVQAALSYIACKNSEGERICKENDCKCHGKFPFCNCPSPDIOAYE 300  
CY 301 ENCLRTETWKAYNDSFDEBDFKFMKRLPNYFJNTSTVHLWINDSNFRAVLEEN 360  
DB 301 ENCLRTETWKAYNDSFDEBDFKFMKRLPNYFJNTSTVHLWINDSNFRAVLEEN 360  
CY 361 SMKQLFLAQAQIVHLFLSKCHKQPLISLPQPTSTYKTRIOSFLYCHENHLSSES 420  
DB 361 SMKQLFLAQAQIVHLFLSKCHKQPLISLPQPTSTYKTRIOSFLYCHENHLSSES 420  
CY 421 BETHSCTCPNDQVCTAFPLCTVGDASACLTACAPNTRCTGTCNTSYMLSQGLCKPEVAE 480  
DB 421 BETHSCTCPNDQVCTAFPLCTVGDASACLTACAPNTRCTGTCNTSYMLSQGLCKPEVAE 480  
CY 481 STDHVGIBETLODLEMXYLOKTRRIEVNAIFISNDMLNSWDFPSWKRMULTKSN 540  
DB 481 STDHVGIBETLODLEMXYLOKTRRIEVNAIFISNDMLNSWDFPSWKRMULTKSN 540  
CY 541 KYKSLVHMLGLSLQICLTKNSTLEPLVAVYKVPFGSHSSEMPVNSFPENRSTK 600  
DB 541 KYKSLVHMLGLSLQICLTKNSTLEPLVAVYKVPFGSHSSEMPVNSFPENRSTK 600  
CY 601 LDLPLOCCYNTWTJLGNKWKTFPETHVYLRKSKNGPKNESYYEPLERIDSRNLGY 660  
DB 601 LDLPLOCCYNTWTJLGNKWKTFPETHVYLRKSKNGPKNESYYEPLERIDSRNLGY 660  
CY 661 MKNNIQVFGVSMHFDPAIRDLLOLDYPYTGQSDSALLQLEIRDPVVKLSPPGCR 720  
DB 661 MKNNIQVFGVSMHFDPAIRDLLOLDYPYTGQSDSALLQLEIRDPVVKLSPPGCR 720  
CY 721 LDLPLOCCYNTWTJLGNKWKTFPETHVYLRKSKNGPKNESYYEPLERIDSRNLGY 780  
DB 721 LDLPLOCCYNTWTJLGNKWKTFPETHVYLRKSKNGPKNESYYEPLERIDSRNLGY 780

RESULT 2  
US-09-864-761-43251  
Sequence 43251, Application US/09864761  
Patent No. US20020048763A1  
GENERAL INFORMATION:  
APPLICANT: Penn, Sharon G.  
APPLICANT: Ratz, David R.  
APPLICANT: Hanzel, David K.  
APPLICANT: Chen, Wensheng  
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY  
TITLE REFERENCE: Aestica-X-1  
CURRENT APPLICATION NUMBER: US/09/864,761  
CURRENT FILING DATE: 2001-05-23  
PRIOR APPLICATION NUMBER: US 60/180,312  
PRIOR FILING DATE: 2001-02-04  
PRIOR APPLICATION NUMBER: US 60/207,456  
PRIOR FILING DATE: 2001-05-26  
PRIOR APPLICATION NUMBER: US 60/632,366  
PRIOR FILING DATE: 2000-08-03  
PRIOR APPLICATION NUMBER: GB 24263.6  
PRIOR FILING DATE: 2000-12-04  
PRIOR APPLICATION NUMBER: US 60/236,359  
PRIOR FILING DATE: 2000-09-27  
PRIOR APPLICATION NUMBER: PCT/US01/00666  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00667  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00664  
PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00669  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00665  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00668  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00663  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00662  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00661  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: PCT/US01/00660  
PRIOR FILING DATE: 2001-01-30  
PRIOR APPLICATION NUMBER: US 60/234,687  
PRIOR FILING DATE: 2000-09-21  
PRIOR APPLICATION NUMBER: US 09/608,408  
PRIOR FILING DATE: 2000-06-30  
PRIOR APPLICATION NUMBER: US 09/774,203  
PRIOR FILING DATE: 2001-02-29  
NUMBER OF SEQ ID NOS: 49117  
SOFTWARE: Annonax Sequence Listing Engine vers. 1.1  
SEQ ID NO: 43251  
LENGTH: 378  
TYPE: PRT  
ORGANISM: Homo sapiens  
FEATURE:  
OTHER INFORMATION: MAP TO AL022143.1  
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.6  
OTHER INFORMATION: EST HUMAN HIT: AK955819.1, EVALUATE 0.00e+00  
OTHER INFORMATION: SWISSPROT HIT: Q28661, EVALUATE 9.00e-03  
US-09-864-761-43251  
Query Match 38.8%; Score 1550; DB 9; Length 378;  
Best Local Similarity 74.7%; Pred. No. 28-136;  
Matches 298; Conservative 45; Mismatches 49; Indels 0; Gaps 0;  
CY 395 RTSTYELTRIOSFLYCHENHLSSESSETHSCTCPNDQVCTAFPLCTVGDASACLTACAP 454  
DB 7 RSLSYWNRIQSLLYCESTFTFTLEQSHSCTCPYQSSCOGPFPCALGESPPACAHCAP 66  
CY 455 DNTRCGTCNTSYMLSQGLCKPEVAESTDHYIGFETDQDLEMXYLLQKTRRIEVNAIF 514  
DB 67 DNTRCGSCNPGVLAQGLCRPEVAESLENFLGLETDQLQELKYLLOKQDSRIEVSIF 126  
CY 515 ISNDMLNSWDFPSWKRMULTLKSNNYKSSLVHNLGLSLQICLTKNSTLEPLVAVYK 574  
DB 127 ISNDMLNSWDFPSWKRMULTLKSNNYKPGJHVHMLASLQICLTKNSTLEPLVAVYK 186  
CY 575 PFGSHSSEMPVNSFPENRSTKLDLPLOCCYNTWTJLGNKWKTFPETHVYLRSRITK 634  
DB 167 PFGSHSSEMPVNSFPENRSTKLDLPLOCCYNTWTJLGNKWKTFPETHVYLRSRITK 246  
CY 635 SNQPNNSYIYEPLEFFIDSRNLGYKNNKNTQVFGYSNMFDPFAIRDLLOLDYPYTGQ 694  
DB 247 SLDSSSNVIYVSEPLEMTDPSKYLGYKNTQVFGYSNMFDPFAIRDLLOLDYPYTGQ 306  
CY 695 SCDSALLQLEIRDPVVKLSPPGCRDLDFSCLLRHLKLNSEVVRISALQAFNAKLP 754  
DB 307 SCDSALLQLEIRDPVVKLSPPGCRDLDFSCLLRHLKLNSEVVRISALQAFNAKLP 366  
CY 755 NYXDYDTTKLCS 766  
DB 367 NPVEYDTTKLCS 379  
RESULT 3  
US-09-864-761-43222  
Sequence 43222, Application US/09864761  
Patent No. US20020048763A1  
GENERAL INFORMATION:  
APPLICANT: Penn, Sharon G.  
APPLICANT: Ratz, David R.



```

; OTHER INFORMATION: MAP TO ALO22143.1
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.94
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN PETAL LIVER, SIGNAL = 1.1
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.99
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.99
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.3
; OTHER INFORMATION: EST HUMAN HIT: R5490.1, EVALUE 5.04e-37
; OTHER INFORMATION: SWISSPROT HIT: P16591, EVALUE 6.60e-01
US-09-864-761-38031

Query Match      8.3%; Score 327; DB 3; Length 78;
Best Local Similarity 70.5%; Pred. No. 7.6e-23;
Matches 55; Conservative 10; Mismatches 13; Indels 0; Gaps 0;

CY 243 LQVLLPDLQERFVQALSYIAKNSGEF:CKNDQWCHGCKFKFECNCPKSDICAKHEEN 102
DB 1 LQVLLPEYLERRVVALSVITSSGELYCKNDQWCKSTFFECNCPKSDICAKHEEN 60

CY 303 LKRTETWKAYNSCFEES 320
DB 61 LQIQDSWA:HNKCFEES 78

RESULT 5
US-10-231-417-371
; Sequence 371, Application US/10231417
; Publication No. US20020301766B1A1
; GENERAL INFORMATION:
; APPLICANT: Feng et al.
; TITLE OF INVENTION: 148 Human Secreted Proteins
; FILE REFERENCE: P20198;
; CURRENT APPLICATION NUMBER: US/10231417
; PRIOR FILING DATE: 2002-08-30
; PRIOR APPLICATION NUMBER: US/09/296,622
; PRIOR FILING DATE: 1999-04-23
; NUMBER OF SEQ ID NOS: 619
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 371:
; LENGTH: 101
; TYPE: PR
; ORGANISM: Homo sapiens
US-10-231-417-371

Query Match      7.3%; Score 299.5; DB 10; Length 101;
Best Local Similarity 76.3%; Pred. No. 4.4e-20;
Matches 58; Conservative 6; Mismatches 7; Indels 5; Gaps 1;

CY 70 GFSTRYKIYEFDRKWKNNNAVERNPUSPLDAPFEFFNRIILGRRRTIQQITENLIK 129
DB 10 GFSP-----RFAFWKYNNAJERKOPFSLPLAPER:FNTELLQGFENLOCVTENIK 44

CY 130 KYGTHPLLSATLGGEE 145
DB 65 KYGTHPLLSATLGGKQ 80

RESULT 6
US-09-864-761-38134
; Sequence 38134, Application US/09864761
; Patent No. US200203048763A1
; GENERAL INFORMATION:
; APPLICANT: Penn, Sharron G.
; APPLICANT: Rank, David R.
; APPLICANT: Hanzel, David K.
; APPLICANT: Chen, Wensheng
; TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
; FILE REFERENCE: Acotica-X-1
; CURRENT APPLICATION NUMBER: US/09/864,761
; CURRENT FILING DATE: 2001-05-23
; PRIOR APPLICATION NUMBER: US 65/180,312

```

```

; PRIOR FILING DATE: 2000-12-04
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-03-26
; PRIOR APPLICATION NUMBER: US 09/632,366
; PRIOR FILING DATE: 2000-08-03
; PRIOR APPLICATION NUMBER: GB 24261.6
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/609,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 4317
; SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
; SEQ ID NO 38134
; LENGTH: 69
; TYPE: PR
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO ALO22143.1
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 0.99
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.2
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.4
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.5
; OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 1
; OTHER INFORMATION: EST_HUMAN HIT: 072943.1, EVALUE 5.00e-16
US-09-864-761-38134

Query Match      5.4%; Score 219; DB 9; Length 69;
Best Local Similarity 66.7%; Pred. No. 8.4e-13;
Matches 40; Conservative 10; Mismatches 7; Indels 6; Gaps 1;

CY 144 ESLLTFVQKVKLSKRAEGSDST-----NSSSVTJETLHOJAASYPIRDESLRRJHH 197
DB 1 ESLLTFVQKVLGRKTETTGASIGSGNSSTAVSLETLEQJAASYPIRDESLRRJHH 60

CY 196 FOIASTAIK 206
DB 61 FOIASTAIK 69

RESULT 7
US-09-874-923-101
; Sequence 101, Application US/09874923
; Patent No. US200203081320A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, Colin R.
; APPLICANT: Dillon, David C.

```

APPLICANT: Skeiky, Yasir A.W.  
 APPLICANT: Bhatia, Ajay  
 APPLICANT: Coler, Rhea  
 APPLICANT: Probst, Peter  
 APPLICANT: Brannon, Mark  
 TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE  
 FILE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS  
 CURRENT APPLICATION NUMBER: US/09/874,923  
 CURRENT FILING DATE: 2001-06-04  
 NUMBER OF SEQ ID NOS: 122  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 121  
 LENGTH: 709  
 TYPE: PRT  
 ORGANISM: Leishmania major and chagasi  
 US-09-874-923-121

Query Match 3.0%; Score 123; DB 9; Length 709;  
 Best Local Similarity 21.8%; Pred. No. 0.037;  
 Matches 75; Conservative 26; Mismatches 117; Indels 126; Gaps 16;

QY 203 TAIKVTETRTPLGCS-----NYNLDSSVSVLVQSPENKIQGLQGV 245  
 DB 354 TAIKVPNTNAYVLCGSGAGCTTCFNETACLECRPSYEML-----PMTCSLTSLQC 403  
 QY 246 LLPDY-----LOERFVQAALSYIACNS--EGEFICK-----END 277  
 DB 404 TDPKCKTCTTGGCTCCNDGGTSSSVGVCRCSVAGCKSPVDANVCKVCGSEPIINMM 463  
 QY 278 CWHCGKFPKPC-KCFSS-----MD---LCAMEENLLRITETWKAYNSDFEE 319  
 DB 464 CPC-----TDPKASCPSDAGTCTCCANGYGLVDGACVACQEPFCFSC----- 555  
 QY 320 SDERKFLPKRLPMRYFLN-----TSTIMLWTMSNFORRYEQLENSYKOLFJKAQK 371  
 DB 508 SDANK--CTQCAPNYLTLTCSFVACNIEHCWCCDPTFSCQECVSP----- 555  
 QY 372 IVHKLFSLSKCHKQPLSLPQRTISTYWLTRIOSFYCNENGLGSGSFSETHSCCTCPND 431  
 DB 556 --YVDSVDEGLRSLDACSVPNCKKCTGTGSR-----CABCDTGYSLSDATSCSPTT 608  
 QY 372 IVHKLFSLSKCHKQPLSLPQRTISTYWLTRIOSFYCNENGLGSGSFSETHSCCTCPND 431  
 DB 556 --YVDSVDEGLRSLDACSVPNCKKCTGTGSR-----CABCDTGYSLSDATSCSPTT 608  
 QY 432 QWCTAFPLPCTVGDASACTCAPQNRTRCGTCTNTGYMLSGCLCK 475  
 DB 609 C-----PCEV---EHNTCNGDSTRCAVCNTGYVVSCKCK 642

RESULT 8  
 US-09-991-496-121  
 Sequence 121, Application US/0999,496  
 Patent No. US20020169285A  
 GENERAL INFORMATION:  
 APPLICANT: Reed, Steven G.  
 APPLICANT: Campos-Neto, Antonio  
 APPLICANT: Webb, John R.  
 APPLICANT: Dillon, David C.  
 APPLICANT: Skeiky, Yasir A.W.  
 APPLICANT: Bhatia, Ajay  
 APPLICANT: Coler, Rhea  
 APPLICANT: Probst, Peter  
 APPLICANT: Brannon, Mark  
 TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE  
 FILE OF INVENTION: THERAPY AND DIAGNOSIS OF LEISHMANIASIS  
 CURRENT APPLICATION NUMBER: US/09/991,496  
 CURRENT FILING DATE: 2001-11-20  
 NUMBER OF SEQ ID NOS: 137  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 121  
 LENGTH: 709  
 TYPE: PRT  
 ORGANISM: Leishmania major and chagasi  
 US-09-991-496-121

Query Match 3.0%; Score 123; DB 10; Length 709;  
 Best Local Similarity 21.8%; Pred. No. 0.037;  
 Matches 75; Conservative 26; Mismatches 117; Indels 126; Gaps 16;

QY 203 TAIKVTETRTPLGCS-----NYNLDSSVSVLVQSPENKIQGLQGV 245  
 DB 354 TAIKVPNTNAYVLCGSGAGCTTCFNETACLECRPSYEML-----PMTCSLTSLQC 403  
 QY 246 LLPDY-----LOERFVQAALSYIACNS--EGEFICK-----END 277  
 DB 404 TDPKCKTCTTGGCTCCNDGGTSSSVGVCRCSVAGCKSPVDANVCKVCGSEPIINMM 463  
 QY 278 CWHCGKFPKPC-KCFSS-----MD---LCAMEENLLRITETWKAYNSDFEE 319  
 DB 464 CPC-----TDPKASCPSDAGTCTCCANGYGLVDGACVACQEPFCFSC----- 555  
 QY 320 SDERKFLPKRLPMRYFLN-----TSTIMLWTMSNFORRYEQLENSYKOLFJKAQK 371  
 DB 508 SDANK--CTQCAPNYLTLTCSFVACNIEHCWCCDPTFSCQECVSP----- 555  
 QY 372 IVHKLFSLSKCHKQPLSLPQRTISTYWLTRIOSFYCNENGLGSGSFSETHSCCTCPND 431  
 DB 556 --YVDSVDEGLRSLDACSVPNCKKCTGTGSR-----CABCDTGYSLSDATSCSPTT 608  
 QY 432 QWCTAFPLPCTVGDASACTCAPQNRTRCGTCTNTGYMLSGCLCK 475  
 DB 609 C-----PCEV---EHNTCNGDSTRCAVCNTGYVVSCKCK 642

RESULT 9  
 US-10-142-143-2  
 Sequence 2, Application US/10142,143  
 Publication No. US2003039969A  
 GENERAL INFORMATION:  
 APPLICANT: DeAngelis, Paul  
 TITLE OF INVENTION: HEPARIN/HEPARAN SYNTHASE FROM P. MULTOCIDA AND METHODS OF MAKING  
 FILE OF INVENTION: USING SAME  
 CURRENT APPLICATION NUMBER: US/10/142,143  
 CURRENT FILING DATE: 2002-05-08  
 PRIOR APPLICATION NUMBER: 60/289,554  
 PRIOR FILING DATE: 2001-05-08  
 PRIOR APPLICATION NUMBER: 60/296,385  
 PRIOR FILING DATE: 2001-06-08  
 PRIOR APPLICATION NUMBER: 60/303,691  
 PRIOR FILING DATE: 2001-07-06  
 PRIOR APPLICATION NUMBER: 60/313,258  
 PRIOR FILING DATE: 2001-08-17  
 NUMBER OF SEQ ID NOS: 22  
 SOFTWARE: PatentIn version 3.1  
 SEQ ID NO 2  
 LENGTH: 617  
 TYPE: PRT  
 ORGANISM: Pasteurella multocida  
 US-10-142-143-2

Query Match 2.9%; Score 117; DB 15; Length 617;  
 Best Local Similarity 19.0%; Pred. No. 0.022;  
 Matches 130; Conservative 111; Mismatches 207; Indels 236; Gaps 39;

QY 104 APEFERNIRLGRRTPLQITENIKKYGTHFLSLATLG-GEESLT-FVQKRKLSKRAEG 162  
 DB 7 ATELKPS---GNVKAULTVEN-AKIVGSLSVKYNDICKKNT---QSKSNKISED 58  
 QY 143 SSTNTSSSVLETHLQLAASYFDROSTLRRLHHIQIASTAKVTETRTG?----- 215  
 DB 59 NISGENKPSVS-KQVYN-----EISNELGITKERLCAPPVSVIIM 99  
 QY 216 GCSNYDNL--DSVSSVLYOSPENKIQGLQGV-LPDYLERFVQAL----- 260  
 DB 100 TSHNTKTEFIASINSLLQTYNN-----LEVIWDDYSTDKTFQASRIANSTSKVKT 153

```
QY 261 -----SYACN-----SEGHFI-CKNDCHCHCPHPC-----KPSM 294
DB 264 RUNSLGTFAKNTGIRKSGDIIFQSDUDVCH-HEIERGQALLSKNKNIAVPCAYS 312
QY 295 DICAMEENLRJTE-----TWAYNSDFEE-----SDRP-----KLEKAL 333
DB 213 RINLETONTIKYNDKRYKLGILITGVYKRVFVEIGFENCITKADCEFYHILKYKAR 212
QY 331 PMNYFQ-----NTS-----TIMELWTMDSNFR-----YEQFNSMKQ 364
DB 273 INKLPLLYNTYREDLSFDSDVYVWENNINIKQKSDAPQYVLFHFOFKHNERALNEAKS 332
QY 365 JFKAQKIVHKFSLSKGCHK-----QPS-----SLPQRTSTYWLTRIQGFELFQENML 415
DB 333 JFSFPR--IHDAIPISKMSKLSNKPYPVINCSDP-----SPKQGVY--TGV 309
QY 416 LGSFSETHSCPDNDVYCTAFJCTVGDASACUTCAPDNRTPGTONTYMLSGGLCK 475
DB 380 LKQCQDHPHYLGGYFZV--PPIK-KLONKATVNC--QKQHSIRPENGKFIIEKLIX 434
QY 476 PEVASTCHY-----IGFTDQJLEKNKYLOKTUR RIEVHAIF-SNDKRLNSWDP 527
DB 435 -----ENKQGYITCODIRYPADYNTMIKKINKYNDKAAIGLGVIPPS--RVNKVPSS 498
QY 525 SNEKRVLLTKS-----NKYK-SSLVHY-IGLSLQICUTKN 562
DB 489 D---RIVYFQKPLENDTAVNLGTCTVAFRVSIFNKFSLSDPEHPGNVDIYFSLCKN 545
QY 563 STLEPYLAVYVAPFGSHSESMPVNSFPDWERKLDLPLOQYNNLTLLGNKRWKTF 622
DB 546 NILQVCI-----SRPSNLTEDNKN-----TETJPHFQNR 577
QY 623 ETVHYLRSR--KSNQPNQNESTY 645
DB 578 E-----IQSKLIISNPNWGYSSII 596

RESULT 10
US-10-047-676A-7
; Sequence 7, Application US/10047676A
; Publication No. US2002023105A1
; GENERAL INFORMATION:
; APPLICANT: Qi, Fengxia
; APPLICANT: Caufield, Page W.
; APPLICANT: Chen, Ping W.
; TITLE OF INVENTION: MUTACIN I BIOSYNTHESIS GENES AND PROTEINS
; FILE REFERENCE: URN-17403/22
; CURRENT APPLICATION NUMBER: US/10/047,676A
; PRIOR FILING DATE: 2002-03-21
; PRIOR FILING DATE: US 03/627,376
; PRIOR FILING DATE: 2000-07-28
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 7
; TYPE: PRF
; ORGANISM: Streptococcus mutans
US-10-047-676A-7

Query Match 2.88; Score 115.5; DB 14; Length 990;
Rest Local Similarity 18.96; Pred No 0.32;
Matches 154; Conservative 125; Mismatches 270; Indels 263; Gaps 42;

QY 219 TJQQTENLAKYQ-----TRF-LLSATLGGESLTIYFVKRLSKPAGESSTINS 169
DB 139 TLKVANNALQKSDPMLLTJTRSHFLGMLNRSRSDIREDTV-----KSNQLDVYVNC 190
QY 170 SS--VTLESTYHLMASVFDSDSTLRLHHIQIASTAIX-----VTETRGPLGCSNHYH- 222
DB 191 TEEDISYQTLCDIAEKFSOSSDVK-----EYQTLKEEPTJTSKPSLID----RNP 241
QY 223 LDSVSSVAVGSPENKICLOG-----QVLLPDYQERFVQAALSYVACKNSEGETCKEN--- 276
```

```
DB 242 LWFPIILTERDORNSSELLEKUTEKAMIQDYTDNIGENNSIALFNKMSOIVKANAYL 301
QY 277 ---DCWCHCGPAPFECNCPSPMDICAMEENLRITETK-KAYNSDFEESDFKLPYKR--- 329
EP 302 RVLDYCHAEALXLAQTKSSL-----QNLKLVJSSFSAYNSCKEIKNYHEKF-AAVGYE 355
QY 330 ---LPNNYFEN-STVHLWTMDSNFORRYEQLE-NSMKQJFJKAQKIYVKL-----FSLSKRC 383
DB 356 QVLPJQLLJNS-----TSLGFPKGYSTEVSKQNNEDSKNGLIEFFQKFEKALRD 408
QY 384 HKQPLISLPRGTSY-KLTRIQQSFYKNEH-----GLGSESETHSTC 428
DB 409 GHEILSDDDLKOLNFTQEQISSELVCFYFKSKKLVSLSGVYQMLGNTFCRPHS-KL 467
QY 429 PRDQVCTAFPLCTVGDASACUTCAPDNRTPGTONTGY-----VLSQJCKEFAVES 481
DB 466 PR-----TIVTKWNTKKEPTEAVPNTITOLNEUVYFQRGNTIMISNLS-KSHQJEL 520
QY 482 THYIGFTDQDL-----EYKYLLOKTRRLEVHAIFISNDYRLNSWFPDSWAKKML 534
DB 521 RNYTTKEMSINDIYVRATSEELVYFKYKRV-----IFNNNM--PNY-NGSKLRL 574
QY 535 LTKSNKYKSSLVHYLGL-----GKWKTFEFTVHI-----SLQICLCK 561
DB 575 LEVNSDQF-NITPTTGLSLSYNHVPAILYKDIKPKETWIRKSEAKTCLSLKNWLT- 632
QY 562 NSTLEPV-----AVYVFPQSHSESMPVNSF-----PWERTKLDL 603
DB 633 NNKVPFVRKMYTDQIIVLJUSRTTDLTMLFOSIKHSHFQLLDVHVSCTVDTLELIV 692
QY 604 PL-----QYNNLTLL-----GNKWKTFEFTVHI-----YLR- 630
DB 593 PFRSDVNAHQIYVHAQNIYVLTEDSGSKYFYAKIYVVKQKOTSFLQKEYVULLKYLK 752
QY 631 -----SRKSNQPNQNE-----SIYVEPLEFIDPSNLYKMKINNIQVFG 670
DB 753 PENLOWFYTRYKDCGKDSIRJRYVEDKQLVQVSRFIEWATKAR-----KRIQJSG 805
QY 671 YSM-HFDEPAIR-----DULIQDYPTVQGSQSSALLGLEIRDR 709
DB 806 YEISEYTPESARYGSKYKSSIIHSPFYVDSILDLILQ-----KKAECIEVETS 854
QY 710 VN-----KLSPPGQRL--DLFSCLLRHLK 733
DB 855 LSIIRVFLWKLKSLQCCQKLEKHLFDG--KHKLK 896

RESULT 11
US-10-142-143-4
; Sequence 4, Application US/10142143
; Publication No. US2003059957A1
; GENERAL INFORMATION:
; APPLICANT: DeAngelis, Paul
; TITLE OF INVENTION: HEPARIN/HEPARICAN SYNTHASE FROM P. MULTOCIDA AND METHODS OF VARI
; FILE REFERENCE: 5864, 627
; CURRENT APPLICATION NUMBER: US/10/142,143
; PRIOR FILING DATE: 2002-05-28
; PRIOR APPLICATION NUMBER: 60/289,554
; PRIOR FILING DATE: 2001-05-05
; PRIOR APPLICATION NUMBER: 60/296,386
; PRIOR FILING DATE: 2001-06-06
; PRIOR APPLICATION NUMBER: 47/103,691
; PRIOR FILING DATE: 2001-07-06
; PRIOR APPLICATION NUMBER: 60/313,258
; PRIOR FILING DATE: 2001-08-17
; NUMBER OF SEQ ID NOS: 22
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 4
; LENGTH: 517
; TYPE: PRF
; ORGANISM: Pasteurella multocida
US-10-142-143-4
```

```
Query Match      2.8% Score 115; DB 15; Length 617;
Best Local Similarity 39.0%; Pred. No. 0.17;
Matches 130; Conservative 111; Mismatches 267; Indels 236; Gaps 39;

QY 104 APEPRIRLLGRPTQOITENIKKYGTHFLLSATLG-GEESLTIFVDRKRLSKAEG 162
DB 7 ATELFKS-----GNVKDALTYENIAKYGSLSVKNYDICKNIT-----OSKSNKEED 58
QY 163 SDSSTNSSVTLETJHOLASFYDRDSTLRRLLHHIOIASTAIKVTETRTGP-----L 215
DB 59 NISGENKFSVSIKOLYN-----EISNELGCTKERUGARPVLSIIV 93
QY 216 GCSNYDKL--DSVSULVQSPENKIQLOGLOV-LPDYJGERFVQAL----- 249
DB 100 TSHNTKEFIEASINSLLOQTYNN-----LEVIVVDYSYDKTFQIASRANSTSKVATP 153
QY 261 -----SVIACN-----SESEFI-CXENDCMCHCGKPFEC-----NCPKM 294
DB 154 RNSNLGTYPANKGILASKGDIIFQDSDDVCH-HERIECNALLSNKN-AVGCAYS 212
QY 295 DIOAMEENLGRITE-----TWKYNDSFEE-----SDFE-----KLFXKEL 310
DB 213 RINLETQNIKVNOKKYLGLTGLGWKRVENVEIGFNCITKAEDDFEYRIIAKYSKR 272
QY 331 PNYVEL-----NTS-----TIMHLTMTDSNFQR-----YEQLENSMKQ 364
DB 273 INNUFLPYNYKXREDSFSDXVWEDDENIKQKTSARONYLHEFKIINERALNEKE 312
QY 365 LFLAKQAKVHKJFSLSKRCHK--OPLI-----SLPRORTSTWLTIRISFVYCNENGL 415
DB 333 IFSFPR--IHOALPFSKMSKLSNPKIPVYINISIP-----SRKQLQV--TIGV 379
QY 416 LOSPSEETHSCFCNQVQVCTAFPCTVGDASACLTCAPNRTCGTCNTGYVLSQGLCK 475
DB 380 LKNOCDDPHYLOGYEV--POPIK-KLGNKATVNC--QNKRESIRNGKFKILENLIY 434
QY 476 PEVAESTHY-----IGFSTDIQLEMKYLKQDSE-PIETHALISMDMSANSEOP 527
DB 435 ----ENKQVITCDDIRYADYINTKIRKINYNDKAAIGDHVIFTS--RKNYFSS 498
QY 528 SMPKEMULTKSS-----NKKY-SSEVHM-ILGLSEGLCTKN 562
DB 489 D--RIVYNEKPLENDTAVNIGTGVAPRVSIFNKPFLSLPEHPGKVDIYISILCKN 516
QY 563 SFLSPVJAVYNPFGSSHSWFXFWNENSPDERTKLDJFLQYKNTLTGKXKWTFF 622
DB 546 NILQVCI-----SRESNKLTECNK-----TETLFEHPQWRD 577
QY 623 ETVH-YLRSR-IKSNKPNGNESIY 645
DB 578 E-----IQSKLI--SNPNWGYSSIIY 596

RESULT 12
US-09-874-923-22
; Sequence 22, Application US/09874923
; Patent No. US20020081320A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bhatia, Ajay
; APPLICANT: Colier, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; FILE REFERENCE: 2:0121.420C8
; CURRENT APPLICATION NUMBER: US/09/874.923
; CURRENT FILING DATE: 2001-06-04
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 320
; TYPE: PRT
; ORGANISM: Leishmania major
US-09-874-923-55
Query Match      2.8% Score 114.5; DB 9; Length 320;
Best Local Similarity 32.3%; Pred. No. 0.064;
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 383 CHKQPLJSLPRCTSTWLTIRISFLYCNENGLSGSSESTHSCITCNDQVCTAF 442
DB 176 CRLSDACSVNPKCKCETGTSRL-----CAECDGYSLSADATSCSPTTC 223
QY 443 VGDASACLTCAPNRTCGTCNTGYVLSQGLCK 475
DB 224 V---EHCKTGVNGDSTRCAVNTGYVYVSDGCK 253

RESULT 14
US-09-991-496-22
; Sequence 22, Application US/09991496
; Patent No. US20020169285A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bhatia, Ajay
; APPLICANT: Colier, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; FILE REFERENCE: 2:0121.420C8
; CURRENT APPLICATION NUMBER: US/09/874.923
; CURRENT FILING DATE: 2001-06-04
```

```
NUMBER OF SEQ ID NOS: 122
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 22
LENGTH: 320
TYPE: PRT
ORGANISM: Leishmania major
US-09-874-923-22
Query Match      2.8% Score 114.5; DB 9; Length 320;
Best Local Similarity 32.3%; Pred. No. 0.064;
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 383 CHKQPLJSLPRCTSTWLTIRISFLYCNENGLSGSSESTHSCITCNDQVCTAF 442
DB 176 CRLSDACSVNPKCKCETGTSRL-----CAECDGYSLSADATSCSPTTC 223
QY 443 VGDASACLTCAPNRTCGTCNTGYVLSQGLCK 475
DB 224 V---EHCKTGVNGDSTRCAVNTGYVYVSDGCK 253

RESULT 13
US-09-874-923-55
; Sequence 55, Application US/09874923
; Patent No. US20020081320A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bhatia, Ajay
; APPLICANT: Colier, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; FILE REFERENCE: 2:0121.420C8
; CURRENT APPLICATION NUMBER: US/09/874.923
; CURRENT FILING DATE: 2001-06-04
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 55
; LENGTH: 320
; TYPE: PRT
; ORGANISM: Leishmania major
US-09-874-923-55
Query Match      2.8% Score 114.5; DB 9; Length 320;
Best Local Similarity 32.3%; Pred. No. 0.064;
Matches 30; Conservative 8; Mismatches 40; Indels 15; Gaps 3;

QY 383 CHKQPLJSLPRCTSTWLTIRISFLYCNENGLSGSSESTHSCITCNDQVCTAF 442
DB 176 CRLSDACSVNPKCKCETGTSRL-----CAECDGYSLSADATSCSPTTC 223
QY 443 VGDASACLTCAPNRTCGTCNTGYVLSQGLCK 475
DB 224 V---EHCKTGVNGDSTRCAVNTGYVYVSDGCK 253

RESULT 14
US-09-991-496-22
; Sequence 22, Application US/09991496
; Patent No. US20020169285A1
; GENERAL INFORMATION:
; APPLICANT: Reed, Steven G.
; APPLICANT: Campos-Neto, Antonio
; APPLICANT: Webb, John R.
; APPLICANT: Dillon, Davin C.
; APPLICANT: Skeiky, Yasir A.W.
; APPLICANT: Bhatia, Ajay
; APPLICANT: Colier, Rhea
; APPLICANT: Probst, Peter
; APPLICANT: Brannon, Mark
; TITLE OF INVENTION: LEISHMANIA ANTIGENS FOR USE IN THE
; FILE REFERENCE: 2:0121.420C8
; CURRENT APPLICATION NUMBER: US/09/874.923
; CURRENT FILING DATE: 2001-06-04
```





Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal653hxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the  
present  
NEWS 4 AUG 05 New pricing for EUROPATFULL and PCTFULL effective  
August 1, 2003  
NEWS 5 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN  
NEWS 6 AUG 18 Data available for download as a PDF in RDISCLOSURE  
NEWS 7 AUG 18 Simultaneous left and right truncation added to PASCAL  
NEWS 8 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right  
Truncation  
NEWS 9 AUG 18 Simultaneous left and right truncation added to ANABSTR  
NEWS 10 SEP 22 DIPPR file reloaded  
NEWS 11 SEP 25 INPADOC: Legal Status data to be reloaded  
NEWS 12 SEP 29 DISSABS now available on STN  
NEWS 13 OCT 10 PCTFULL: Two new display fields added  
NEWS 14 OCT 21 BIOSIS file reloaded and enhanced  
NEWS 15 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced  
  
NEWS EXPRESS OCTOBER 01 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
specific topic.

All use of STN is subject to the provisions of the STN Customer  
agreement. Please note that this agreement limits use to scientific  
research. Use for software development or design or implementation  
of commercial gateways or other similar uses is prohibited and may  
result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 16:50:21 ON 30 OCT 2003

=> file medline, uspatful, dgene, embase, wpids, fsta, biosis		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'MEDLINE' ENTERED AT 16:50:42 ON 30 OCT 2003

FILE 'USPATFULL' ENTERED AT 16:50:42 ON 30 OCT 2003  
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'DGENE' ENTERED AT 16:50:42 ON 30 OCT 2003  
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'EMBASE' ENTERED AT 16:50:42 ON 30 OCT 2003  
COPYRIGHT (C) 2003 Elsevier Inc. All rights reserved.

FILE 'WPIDS' ENTERED AT 16:50:42 ON 30 OCT 2003  
COPYRIGHT (C) 2003 THOMSON DERWENT

FILE 'FSTA' ENTERED AT 16:50:42 ON 30 OCT 2003  
COPYRIGHT (C) 2003 International Food Information Service

FILE 'BIOSIS' ENTERED AT 16:50:42 ON 30 OCT 2003  
COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC. (R)

=> e fiscella,m/au

E1	8	FISCELLA RICHARD/AU
E2	19	FISCELLA RICHARD G/AU
E3	0 -->	FISCELLA,M/AU
E4	1	FISCELLI NICOLINO/AU
E5	9	FISCELLI O/AU
E6	1	FISCELLS R/AU
E7	1	FISCENCO V/AU
E8	1	FISCER A G/AU
E9	1	FISCER J J/AU
E10	1	FISCFHER A/AU
E11	2	FISCH/AU
E12	203	FISCH A/AU

=> e wei, p/au

E1	1	WEI ZUO/AU
E2	1	WEI ZUO JUN/AU
E3	0 -->	WEI, P/AU
E4	1	WEI1 F/AU
E5	1	WEIAI SU/AU
E6	1	WEIAND C/AU
E7	1	WEIAND CLAUDIA/AU
E8	1	WEIAND D D/AU
E9	1	WEIAND DENNIS D/AU
E10	7	WEIAND F/AU
E11	3	WEIAND FRANK/AU
E12	20	WEIAND G/AU

=> e lafleur, d/au

E1	5	LAFLEUR W R/AU
E2	2	LAFLEUR WILLIAM R/AU
E3	0 -->	LAFLEUR, D/AU
E4	1	LAFLEUREZA J A/AU
E5	24	LAFLEURIEL J/AU
E6	2	LAFLEURIEL JACQUELINE/AU
E7	1	LAFLEURIEL M/AU
E8	18	LAFLEURIEL M T/AU
E9	1	LAFLEURIEL TH M/AU
E10	1	LAFLEURJUN P J/AU
E11	1	LAFLEY LINDA S/AU
E12	3	LAFLIN B/AU

=> e soppet, d/au

E1	2	SOPPET DANIEL P/AU
E2	112	SOPPET DANIEL R/AU
E3	0 -->	SOPPET, D/AU

E4	3	SOPPETT D/AU
E5	1	SOPPETT DAN/AU
E6	16	SOPPI A M/AU
E7	233	SOPPI E/AU
E8	10	SOPPI E T/AU
E9	13	SOPPI ESA/AU
E10	38	SOPPIMATH K S/AU
E11	5	SOPPIMATH KUMARESH S/AU
E12	1	SOPPIMATH S S/AU

=> e moore, p/au

E1	4	MOORE ZACK J/AU
E2	3	MOORE ZAKHIA/AU
E3	0 -->	MOORE, P/AU
E4	1	MOOREADIAN ARSHAG D/AU
E5	1	MOOREAU J/AU
E6	1	MOORECR J R/AU
E7	1	MOORECRAFT P/AU
E8	4	MOORECROFT B J/AU
E9	1	MOORED J A/AU
E10	1	MOORED J W/AU
E11	1	MOOREE J H/AU
E12	1	MOOREES C F/AU

=> e rosen, c/au

E1	2	ROSEN ZVI MICHAL/AU
E2	1	ROSEN ZWEIG JAMES/AU
E3	0 -->	ROSEN, C/AU
E4	1	ROSENA BRUCE R/AU
E5	1	ROSENABUM S/AU
E6	1	ROSENACKER A F/AU
E7	1	ROSENACKER ARTHUR F/AU
E8	4	ROSENADA CEPERO R/AU
E9	1	ROSENAGER L/AU
E10	1	ROSENAK B/AU
E11	49	ROSENAK B D/AU
E12	23	ROSENAK D/AU

=> e baker, k/au

E1	98	BAKER ZANDER S A/AU
E2	4	BAKER ZANDER SHARON A/AU
E3	0 -->	BAKER, K/AU
E4	1	BAKERAMMAR A/AU
E5	1	BAKERBB/AU
E6	1	BAKERBM J R/AU
E7	4	BAKERDC J R/AU
E8	1	BAKERDJIAN Z/AU
E9	1	BAKERDJIEV T/AU
E10	1	BAKERDZHIEVA D/AU
E11	2	BAKERDZHIEVA N T/AU
E12	2	BAKERENKOV A S/AU

=> e ruben, s/au

E1	1	RUBEN ZANCHETTA JOSE/AU
E2	2	RUBEN ZORRO/AU
E3	0 -->	RUBEN, S/AU
E4	7	RUBENACH B/AU
E5	8	RUBENACH BERNHARD/AU
E6	2	RUBENACH GERZ K/AU
E7	1	RUBENACH I/AU
E8	1	RUBENACH J/AU
E9	11	RUBENACH S/AU
E10	1	RUBENACH S E/AU
E11	3	RUBENACH SALLY/AU

E12 1 RUBENACH SALLY E/AU

=> s secreted protein () protein expression  
3 FILES SEARCHED...

L1 0 SECRETED PROTEIN (W) PROTEIN EXPRESSION

=> s secreted protein () squamous carcinoma

L2 0 SECRETED PROTEIN (W) SQUAMOUS CARCINOMA

=> s renal cell carcinoma

L3 33636 RENAL CELL CARCINOMA

=> s secreted protein and l3

L4 504 SECRETED PROTEIN AND L3

=> s l4 and therapy

L5 488 L4 AND THERAPY

=> s l5 and ovarian cancer

L6 402 L5 AND OVARIAN CANCER

=> s l6 and skin cancer

L7 223 L6 AND SKIN CANCER

=> s l7 and bladder

L8 223 L7 AND BLADDER

=> s l8 and treatment

L9 223 L8 AND TREATMENT

=> s l9 and screening assay

L10 153 L9 AND SCREENING ASSAY

=> s l10 and method

L11 153 L10 AND METHOD

=> s l11 and fluorescent

L12 153 L11 AND FLUORESCENT

=> d l12 ti abs ibib 1-15

L12 ANSWER 1 OF 153 USPATFULL on STN

TI Nucleic Acids, Proteins, and antibodies

AB The present invention relates to novel **bladder** related polynucleotides and the polypeptides encoded by these polynucleotides herein collectively known as "**bladder** antigens," and the use of such **bladder** antigens for detecting disorders of the **bladder** system, particularly the presence of **bladder** cancer and **bladder** cancer metastases. More specifically, isolated **bladder** associated nucleic acid molecules are provided encoding novel **bladder** associated polypeptides. Novel **bladder** polypeptides and antibodies that bind to these polypeptides are provided. Also provided are vectors, host cells, and recombinant and synthetic methods for producing human **bladder** associated polynucleotides and/or polypeptides. The invention further relates to diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to the **bladder**, including **bladder** cancer, and therapeutic methods for treating such disorders. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting the production and function of the polypeptides of the present invention.

ACCESSION NUMBER: 2003:282665 USPATFULL  
 TITLE: Nucleic Acids, Proteins, and antibodies  
 INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
 Ruben, Steven M., Olney, MD, UNITED STATES  
 Barash, Steven C., Rockville, MD, UNITED STATES  
 PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003199008	A1	20031023
APPLICATION INFO.:	US 2002-80254	A1	20020222 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-764858, filed on 17 Jan 2001, ABANDONED		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-179065P	20000131 (60)
	US 2000-180628P	20000204 (60)
	US 2000-214886P	20000628 (60)
	US 2000-217487P	20000711 (60)
	US 2000-225758P	20000814 (60)
	US 2000-220963P	20000726 (60)
	US 2000-217496P	20000711 (60)
	US 2000-225447P	20000814 (60)
	US 2000-218290P	20000714 (60)
	US 2000-225757P	20000814 (60)
	US 2000-226868P	20000822 (60)
	US 2000-216647P	20000707 (60)
	US 2000-225267P	20000814 (60)
	US 2000-216880P	20000707 (60)
	US 2000-225270P	20000814 (60)
	US 2000-251869P	20001208 (60)
	US 2000-235834P	20000927 (60)
	US 2000-234274P	20000921 (60)
	US 2000-234223P	20000921 (60)
	US 2000-228924P	20000830 (60)
	US 2000-224518P	20000814 (60)
	US 2000-236369P	20000929 (60)
	US 2000-224519P	20000814 (60)
	US 2000-220964P	20000726 (60)
	US 2000-241809P	20001020 (60)
	US 2000-249299P	20001117 (60)
	US 2000-236327P	20000929 (60)
	US 2000-241785P	20001020 (60)
	US 2000-244617P	20001101 (60)
	US 2000-225268P	20000814 (60)
	US 2000-236368P	20000929 (60)
	US 2000-251856P	20001208 (60)
	US 2000-251868P	20001208 (60)
	US 2000-229344P	20000901 (60)
	US 2000-234997P	20000925 (60)
	US 2000-229343P	20000901 (60)
	US 2000-229345P	20000901 (60)
	US 2000-229287P	20000901 (60)
	US 2000-229513P	20000905 (60)
	US 2000-231413P	20000908 (60)
	US 2000-229509P	20000905 (60)
	US 2000-236367P	20000929 (60)
	US 2000-237039P	20001002 (60)
	US 2000-237038P	20001002 (60)
	US 2000-236370P	20000929 (60)
	US 2000-236802P	20001002 (60)
	US 2000-237037P	20001002 (60)

US 2000-237040P	20001002 (60)
US 2000-240960P	20001020 (60)
US 2000-239935P	20001013 (60)
US 2000-239937P	20001013 (60)
US 2000-241787P	20001020 (60)
US 2000-246474P	20001108 (60)
US 2000-246532P	20001108 (60)
US 2000-249216P	20001117 (60)
US 2000-249210P	20001117 (60)
US 2000-226681P	20000822 (60)
US 2000-225759P	20000814 (60)
US 2000-225213P	20000814 (60)
US 2000-227182P	20000822 (60)
US 2000-225214P	20000814 (60)
US 2000-235836P	20000927 (60)
US 2000-230438P	20000906 (60)
US 2000-215135P	20000630 (60)
US 2000-225266P	20000814 (60)
US 2000-249218P	20001117 (60)
US 2000-249208P	20001117 (60)
US 2000-249213P	20001117 (60)
US 2000-249212P	20001117 (60)
US 2000-249207P	20001117 (60)
US 2000-249245P	20001117 (60)
US 2000-249244P	20001117 (60)
US 2000-249217P	20001117 (60)
US 2000-249211P	20001117 (60)
US 2000-249215P	20001117 (60)
US 2000-249264P	20001117 (60)
US 2000-249214P	20001117 (60)
US 2000-249297P	20001117 (60)
US 2000-232400P	20000914 (60)
US 2000-231242P	20000908 (60)
US 2000-232081P	20000908 (60)
US 2000-232080P	20000908 (60)
US 2000-231414P	20000908 (60)
US 2000-231244P	20000908 (60)
US 2000-233064P	20000914 (60)
US 2000-233063P	20000914 (60)
US 2000-232397P	20000914 (60)
US 2000-232399P	20000914 (60)
US 2000-232401P	20000914 (60)
US 2000-241808P	20001020 (60)
US 2000-241826P	20001020 (60)
US 2000-241786P	20001020 (60)
US 2000-241221P	20001020 (60)
US 2000-246475P	20001108 (60)
US 2000-231243P	20000908 (60)
US 2000-233065P	20000914 (60)
US 2000-232398P	20000914 (60)
US 2000-234998P	20000925 (60)
US 2000-246477P	20001108 (60)
US 2000-246528P	20001108 (60)
US 2000-246525P	20001108 (60)
US 2000-246476P	20001108 (60)
US 2000-246526P	20001108 (60)
US 2000-249209P	20001117 (60)
US 2000-246527P	20001108 (60)
US 2000-246523P	20001108 (60)
US 2000-246524P	20001108 (60)
US 2000-246478P	20001108 (60)
US 2000-246609P	20001108 (60)
US 2000-246613P	20001108 (60)
US 2000-249300P	20001117 (60)

US 2000-249265P	20001117 (60)
US 2000-246610P	20001108 (60)
US 2000-246611P	20001108 (60)
US 2000-230437P	20000906 (60)
US 2000-251990P	20001208 (60)
US 2000-251988P	20001205 (60)
US 2000-251030P	20001205 (60)
US 2000-251479P	20001206 (60)
US 2000-256719P	20001205 (60)
US 2000-250160P	20001201 (60)
US 2000-251989P	20001208 (60)
US 2000-250391P	20001201 (60)
US 2000-254097P	20001211 (60)
US 2000-231968P	20000912 (60)
US 2000-226279P	20000818 (60)
US 2000-186350P	20000302 (60)
US 2000-184664P	20000224 (60)
US 2000-189874P	20000316 (60)
US 2000-198123P	20000418 (60)
US 2000-227009P	20000823 (60)
US 2000-235484P	20000926 (60)
US 2000-190076P	20000317 (60)
US 2000-209467P	20000607 (60)
US 2000-205515P	20000519 (60)
US 2001-259678P	20010105 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,  
ROCKVILLE, MD, 20850  
NUMBER OF CLAIMS: 24  
EXEMPLARY CLAIM: 1  
LINE COUNT: 20702

L12 ANSWER 2 OF 153 USPATFULL on STN

TI Human cDNAs and proteins and uses thereof  
AB The invention concerns GENSET polynucleotides and polypeptides. Such  
GENSET products may be used as reagents in forensic analyses, as  
chromosome markers, as tissue/cell/organelle-specific markers, in the  
production of expression vectors. In addition, they may be used in  
screening and diagnosis assays for abnormal GENSET expression and/or  
biological activity and for screening compounds that may be used in the  
**treatment** of GENSET-related disorders.

ACCESSION NUMBER: 2003:282611 USPATFULL  
TITLE: Human cDNAs and proteins and uses thereof  
INVENTOR(S): Bejanin, Stephane, Paris, FRANCE  
Tanaka, Hiroaki, Antony, FRANCE  
PATENT ASSIGNEE(S): GENSET, S.A., Paris, FRANCE (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003198954	A1	20031023
APPLICATION INFO.:	US 2001-1142	A1	20011114 (10)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-924340, filed on 6 Aug 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	WO 2001-IB1715	20010806
	US 2001-305456P	20010713 (60)
	US 2001-302277P	20010629 (60)
	US 2001-298698P	20010615 (60)
	US 2001-293574P	20010525 (60)
DOCUMENT TYPE:	Utility	

FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: SALIWANCHIK LLOYD & SALIWANCHIK, A PROFESSIONAL  
ASSOCIATION, 2421 N.W. 41ST STREET, SUITE A-1,  
GAINESVILLE, FL, 326066669  
NUMBER OF CLAIMS: 13  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 4 Drawing Page(s)  
LINE COUNT: 25681

L12 ANSWER 3 OF 153 USPATFULL on STN

TI Polynucleotides encoding three novel human cell surface proteins with  
leucine rich repeats and immunoglobulin folds, BGS2, 3, and 4 and  
variants thereof  
AB The present invention provides novel polynucleotides encoding BGS-2, 3,  
and 4 polypeptides, fragments and homologues thereof. Also provided are  
vectors, host cells, antibodies, and recombinant and synthetic methods  
for producing said polypeptides. The invention further relates to  
diagnostic and therapeutic methods for applying these novel BGS-2, 3,  
and 4 polypeptides to the diagnosis, **treatment**, and/or  
prevention of various diseases and/or disorders related to these  
polypeptides. The invention further relates to screening methods for  
identifying agonists and antagonists of the polynucleotides and  
polypeptides of the present invention.

ACCESSION NUMBER: 2003:277136 USPATFULL  
TITLE: Polynucleotides encoding three novel human cell surface  
proteins with leucine rich repeats and immunoglobulin  
folds, BGS2, 3, and 4 and variants thereof  
INVENTOR(S): Wu, Shujian, Langhorne, PA, UNITED STATES  
Krystek, Stanley R., Ringoes, NJ, UNITED STATES  
Lee, Liana, North Brunswick, NJ, UNITED STATES  
Feder, John N., Belle Mead, NJ, UNITED STATES  
Cheng, Janet D., Lawrenceville, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003195163	A1	20031016
APPLICATION INFO.:	US 2002-193477	A1	20020711 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-304888P	20010711 (60)
	US 2002-372147P	20020412 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT  
DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000  
NUMBER OF CLAIMS: 24  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 24 Drawing Page(s)  
LINE COUNT: 19137

L12 ANSWER 4 OF 153 USPATFULL on STN

TI Metalloproteinase ADAM 22  
AB The present invention relates to a novel metalloproteinase protein  
called ADAM 22. In particular, isolated nucleic acid molecules are  
provided encoding the human ADAM 22 proteins. ADAM 22 polypeptides are  
also provided as are vectors, host cells and recombinant methods for  
producing the same. The invention further relates to screening methods  
for identifying agonists and antagonists of ADAM 22 activity. Also  
provided are diagnostic methods for detecting cancer and therapeutic  
methods for cancer and other disorders characterized by an over or under  
production of this metalloproteinase.



ACCESSION NUMBER: 2003:276772 USPATFULL  
TITLE: Metalloproteinase ADAM 22  
INVENTOR(S): Young, Paul E., Gaithersburg, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003194797	A1	20031016
APPLICATION INFO.:	US 2002-156028	A1	20020529 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2000-487614, filed on 20 Jan 2000, ABANDONED		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-116927P	19990122 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Page(s)	
LINE COUNT:	14391	

L12 ANSWER 5 OF 153 USPATFULL on STN

TI Transcription factor polynucleotides, polypeptides, antibodies, and methods based thereon

AB The present invention relates to newly identified human polynucleotides and the polypeptides encoded by these polynucleotides. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human antigens. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating disorders related to these novel human antigens.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:271690 USPATFULL  
TITLE: Transcription factor polynucleotides, polypeptides, antibodies, and methods based thereon  
INVENTOR(S): Barash, Steven C., Rockville, MD, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003191298	A1	20031009
APPLICATION INFO.:	US 2002-112857	A1	20020402 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 2001-US30146, filed on 27 Sep 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-236803P	20001002 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
LINE COUNT:	18978	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 6 OF 153 USPATFULL on STN

TI 17 human secreted proteins

AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:271104 USPATFULL  
TITLE: 17 human secreted proteins  
INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Komatsoulis, George A., Silver Spring, MD, UNITED STATES  
Baker, Kevin P., Darnestown, MD, UNITED STATES  
Birse, Charles E., North Potomac, MD, UNITED STATES  
Soppet, Daniel R., Centreville, VA, UNITED STATES  
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Moore, Paul A., Germantown, MD, UNITED STATES  
Wei, Ping, Brookeville, MD, UNITED STATES  
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
Duan, D. Roxanne, Bethesda, MD, UNITED STATES  
Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
Choi, Gil H., Rockville, MD, UNITED STATES  
Fiscella, Michele, Bethesda, MD, UNITED STATES  
Ni, Jian, Germantown, MD, UNITED STATES  
Ruben, Steven M., Brookeville, MD, UNITED STATES  
Barash, Steven C., Rockville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003190707	A1	20031009
APPLICATION INFO.:	US 2002-277802	A1	20021023 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-915582, filed on 27 Jul 2001, PENDING Continuation-in-part of Ser. No. WO 2001-US1431, filed on 17 Jan 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-179065P	20000131 (60)
	US 2000-180628P	20000204 (60)
	US 2000-231968P	20000912 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 23  
EXEMPLARY CLAIM: 1  
LINE COUNT: 20847

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 7 OF 153 USPATFULL on STN

TI Polynucleotide encoding a novel human potassium channel beta-subunit, K+Mbeta1

AB The present invention provides novel polynucleotides encoding K+Mbeta1 polypeptides, fragments and homologues thereof. Also provided are vectors, host cells, antibodies, and recombinant and synthetic methods for producing said polypeptides. The invention further relates to diagnostic and therapeutic methods for applying these novel K+Mbeta1 polypeptides to the diagnosis, **treatment**, and/or prevention of various diseases and/or disorders related to these polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of the polynucleotides and polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:258658 USPATFULL  
TITLE: Polynucleotide encoding a novel human potassium channel  
beta-subunit, K+Mbeta1  
INVENTOR(S): Feder, John N., Belle Mead, NJ, UNITED STATES  
Lee, Liana M., Somerset, NJ, UNITED STATES  
Chen, Jian, Princeton, NJ, UNITED STATES  
Jackson, Donald, Lawrenceville, NJ, UNITED STATES  
Ramanathan, Chandra S., Wallingford, CT, UNITED STATES  
Siemers, Nathan O., Pennington, NJ, UNITED STATES  
Chang, Han, Princeton Junction, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003181711	A1	20030925
APPLICATION INFO.:	US 2002-264171	A1	20021003 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2001-40805, filed on 1 Nov 2001, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-245366P	20001102 (60)
	US 2000-257851P	20001221 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	8 Drawing Page(s)	
LINE COUNT:	11490	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 8 OF 153 USPATFULL on STN

TI 207 human secreted proteins

AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:258639 USPATFULL  
TITLE: 207 human secreted proteins  
INVENTOR(S): Ni, Jian, Germantown, MD, UNITED STATES  
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
LaFleur, David W., Washington, DC, UNITED STATES  
Moore, Paul A., Germantown, MD, UNITED STATES  
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Ruben, Steven M., Olney, MD, UNITED STATES  
Soppet, Daniel R., Centreville, VA, UNITED STATES  
Young, Paul E., Gaithersburg, MD, UNITED STATES  
Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
Florence, Kimberly A., Rockville, MD, UNITED STATES  
Wei, Ying-Fei, Berkeley, CA, UNITED STATES  
Florence, Charles, Rockville, MD, UNITED STATES  
Hu, Jing-Shan, Mountain View, CA, UNITED STATES  
Li, Yi, Sunnyvale, CA, UNITED STATES  
Kyaw, Hla, Frederick, MD, UNITED STATES  
Fischer, Carrie L., Burke, VA, UNITED STATES

Ferrie, Ann M., Painted Post, NY, UNITED STATES  
 Fan, Ping, Potomac, MD, UNITED STATES  
 Feng, Ping, Gaithersburg, MD, UNITED STATES  
 Endress, Gregory A., Florence, MA, UNITED STATES  
 Dillon, Patrick J., Carlsbad, CA, UNITED STATES  
 Carter, Kenneth C., North Potomac, MD, UNITED STATES  
 Brewer, Laurie A., St. Paul, MN, UNITED STATES  
 Yu, Guo-Liang, Berkeley, CA, UNITED STATES  
 Zeng, Zhizhen, Lansdale, PA, UNITED STATES  
 Greene, John M., Gaithersburg, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003181692	A1	20030925
APPLICATION INFO.:	US 2001-933767	A1	20010822 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. WO 2001-US5614, filed on 21 Feb 2001, PENDING Continuation-in-part of Ser. No. US 1998-205258, filed on 4 Dec 1998, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-184836P	20000224 (60)
	US 2000-193170P	20000329 (60)
	US 1997-48885P	19970606 (60)
	US 1997-49375P	19970606 (60)
	US 1997-48881P	19970606 (60)
	US 1997-48880P	19970606 (60)
	US 1997-48896P	19970606 (60)
	US 1997-49020P	19970606 (60)
	US 1997-48876P	19970606 (60)
	US 1997-48895P	19970606 (60)
	US 1997-48884P	19970606 (60)
	US 1997-48894P	19970606 (60)
	US 1997-48971P	19970606 (60)
	US 1997-48964P	19970606 (60)
	US 1997-48882P	19970606 (60)
	US 1997-48899P	19970606 (60)
	US 1997-48893P	19970606 (60)
	US 1997-48900P	19970606 (60)
	US 1997-48901P	19970606 (60)
	US 1997-48892P	19970606 (60)
	US 1997-48915P	19970606 (60)
	US 1997-49019P	19970606 (60)
	US 1997-48970P	19970606 (60)
	US 1997-48972P	19970606 (60)
	US 1997-48916P	19970606 (60)
	US 1997-49373P	19970606 (60)
	US 1997-48875P	19970606 (60)
	US 1997-49374P	19970606 (60)
	US 1997-48917P	19970606 (60)
	US 1997-48949P	19970606 (60)
	US 1997-48974P	19970606 (60)
	US 1997-48883P	19970606 (60)
	US 1997-48897P	19970606 (60)
	US 1997-48898P	19970606 (60)
	US 1997-48962P	19970606 (60)
	US 1997-48963P	19970606 (60)
	US 1997-48877P	19970606 (60)
	US 1997-48878P	19970606 (60)
	US 1997-57645P	19970905 (60)
	US 1997-57642P	19970905 (60)
	US 1997-57668P	19970905 (60)
	US 1997-57635P	19970905 (60)
	US 1997-57627P	19970905 (60)

US 1997-57667P	19970905 (60)
US 1997-57666P	19970905 (60)
US 1997-57764P	19970905 (60)
US 1997-57643P	19970905 (60)
US 1997-57769P	19970905 (60)
US 1997-57763P	19970905 (60)
US 1997-57650P	19970905 (60)
US 1997-57584P	19970905 (60)
US 1997-57647P	19970905 (60)
US 1997-57661P	19970905 (60)
US 1997-57662P	19970905 (60)
US 1997-57646P	19970905 (60)
US 1997-57654P	19970905 (60)
US 1997-57651P	19970905 (60)
US 1997-57644P	19970905 (60)
US 1997-57765P	19970905 (60)
US 1997-57762P	19970905 (60)
US 1997-57775P	19970905 (60)
US 1997-57648P	19970905 (60)
US 1997-57774P	19970905 (60)
US 1997-57649P	19970905 (60)
US 1997-57770P	19970905 (60)
US 1997-57771P	19970905 (60)
US 1997-57761P	19970905 (60)
US 1997-57760P	19970905 (60)
US 1997-57776P	19970905 (60)
US 1997-57778P	19970905 (60)
US 1997-57629P	19970905 (60)
US 1997-57628P	19970905 (60)
US 1997-57777P	19970905 (60)
US 1997-57634P	19970905 (60)
US 1997-70923P	19971218 (60)
US 1998-92921P	19980715 (60)
US 1998-94657P	19980730 (60)
US 1997-70923P	19971218 (60)
US 1998-92921P	19980715 (60)
US 1998-94657P	19980730 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,  
ROCKVILLE, MD, 20850  
NUMBER OF CLAIMS: 23  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 10 Drawing Page(s)  
LINE COUNT: 32746  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 9 OF 153 USPATFULL on STN  
TI 186 human secreted proteins  
AB The present invention relates to novel human secreted proteins and isolated nucleic acids containing the coding regions of the genes encoding such proteins. Also provided are vectors, host cells, antibodies, and recombinant methods for producing human secreted proteins. The invention further relates to diagnostic and therapeutic methods useful for diagnosing and treating diseases, disorders, and/or conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
ACCESSION NUMBER: 2003:251072 USPATFULL  
TITLE: 186 human secreted proteins  
INVENTOR(S): Ruben, Steven M., Olney, MD, UNITED STATES  
Rosen, Craig A., Laytonsville, MD, UNITED STATES  
Soppet, Daniel R., Centreville, VA, UNITED STATES  
Carter, Kenneth C., North Potomac, MD, UNITED STATES

Bednarik, Daniel P., Columbia, MD, UNITED STATES  
 Endress, Gregory A., Florence, MA, UNITED STATES  
 Yu, Guo-Liang, Berkeley, CA, UNITED STATES  
 Ni, Jian, Germantown, MD, UNITED STATES  
 Feng, Ping, Germantown, MD, UNITED STATES  
 Young, Paul E., Gaithersburg, MD, UNITED STATES  
 Greene, John M., Gaithersburg, MD, UNITED STATES  
 Ferrie, Ann M., Painted Post, NY, UNITED STATES  
 Duan, D. Roxanne, Bethesda, MD, UNITED STATES  
 Hu, Jing-Shan, Mountain View, CA, UNITED STATES  
 Florence, Kimberly A., Rockville, MD, UNITED STATES  
 Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
 Fischer, Carrie L., Burke, VA, UNITED STATES  
 Ebner, Reinhard, Gaithersburg, MD, UNITED STATES  
 Brewer, Laurie A., St. Paul, MN, UNITED STATES  
 Moore, Paul A., Germantown, MD, UNITED STATES  
 Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
 LaFleur, David W., Washington, DC, UNITED STATES  
 Li, Yi, Sunnyvale, CA, UNITED STATES  
 Zeng, Zhizhen, Lansdale, PA, UNITED STATES  
 Kyaw, Hla, Frederick, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003175858	A1	20030918
APPLICATION INFO.:	US 2001-882171	A1	20010618 (9)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2001-809391, filed on 16 Mar 2001, PENDING Continuation of Ser. No. US 1998-149476, filed on 8 Sep 1998, GRANTED, Pat. No. US 6420526 Continuation-in-part of Ser. No. WO 1998-US4493, filed on 6 Mar 1998, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-190068P	20000317 (60)
	US 1997-40162P	19970307 (60)
	US 1997-40333P	19970307 (60)
	US 1997-38621P	19970307 (60)
	US 1997-40626P	19970307 (60)
	US 1997-40334P	19970307 (60)
	US 1997-40336P	19970307 (60)
	US 1997-40163P	19970307 (60)
	US 1997-47600P	19970523 (60)
	US 1997-47615P	19970523 (60)
	US 1997-47597P	19970523 (60)
	US 1997-47502P	19970523 (60)
	US 1997-47633P	19970523 (60)
	US 1997-47583P	19970523 (60)
	US 1997-47617P	19970523 (60)
	US 1997-47618P	19970523 (60)
	US 1997-47503P	19970523 (60)
	US 1997-47592P	19970523 (60)
	US 1997-47581P	19970523 (60)
	US 1997-47584P	19970523 (60)
	US 1997-47500P	19970523 (60)
	US 1997-47587P	19970523 (60)
	US 1997-47492P	19970523 (60)
	US 1997-47598P	19970523 (60)
	US 1997-47613P	19970523 (60)
	US 1997-47582P	19970523 (60)
	US 1997-47596P	19970523 (60)
	US 1997-47612P	19970523 (60)
	US 1997-47632P	19970523 (60)
	US 1997-47601P	19970523 (60)

US 1997-43580P	19970411 (60)
US 1997-43568P	19970411 (60)
US 1997-43314P	19970411 (60)
US 1997-43569P	19970411 (60)
US 1997-43311P	19970411 (60)
US 1997-43671P	19970411 (60)
US 1997-43674P	19970411 (60)
US 1997-43669P	19970411 (60)
US 1997-43312P	19970411 (60)
US 1997-43313P	19970411 (60)
US 1997-43672P	19970411 (60)
US 1997-43315P	19970411 (60)
US 1997-48974P	19970606 (60)
US 1997-56886P	19970822 (60)
US 1997-56877P	19970822 (60)
US 1997-56889P	19970822 (60)
US 1997-56893P	19970822 (60)
US 1997-56630P	19970822 (60)
US 1997-56878P	19970822 (60)
US 1997-56662P	19970822 (60)
US 1997-56872P	19970822 (60)
US 1997-56882P	19970822 (60)
US 1997-56637P	19970822 (60)
US 1997-56903P	19970822 (60)
US 1997-56888P	19970822 (60)
US 1997-56879P	19970822 (60)
US 1997-56880P	19970822 (60)
US 1997-56894P	19970822 (60)
US 1997-56911P	19970822 (60)
US 1997-56636P	19970822 (60)
US 1997-56874P	19970822 (60)
US 1997-56910P	19970822 (60)
US 1997-56864P	19970822 (60)
US 1997-56631P	19970822 (60)
US 1997-56845P	19970822 (60)
US 1997-56892P	19970822 (60)
US 1997-57761P	19970905 (60)
US 1997-47595P	19970523 (60)
US 1997-47599P	19970523 (60)
US 1997-47588P	19970523 (60)
US 1997-47585P	19970523 (60)
US 1997-47586P	19970523 (60)
US 1997-47590P	19970523 (60)
US 1997-47594P	19970523 (60)
US 1997-47589P	19970523 (60)
US 1997-47593P	19970523 (60)
US 1997-47614P	19970523 (60)
US 1997-43578P	19970411 (60)
US 1997-43576P	19970411 (60)
US 1997-47501P	19970523 (60)
US 1997-43670P	19970411 (60)
US 1997-56632P	19970822 (60)
US 1997-56664P	19970822 (60)
US 1997-56876P	19970822 (60)
US 1997-56881P	19970822 (60)
US 1997-56909P	19970822 (60)
US 1997-56875P	19970822 (60)
US 1997-56862P	19970822 (60)
US 1997-56887P	19970822 (60)
US 1997-56908P	19970822 (60)
US 1997-48964P	19970606 (60)
US 1997-57650P	19970905 (60)
US 1997-56884P	19970822 (60)
US 1997-57669P	19970905 (60)

US 1997-49610P	19970613 (60)
US 1997-61660P	19971009 (60)
US 1997-51926P	19970708 (60)
US 1997-52874P	19970716 (60)
US 1997-58785P	19970912 (60)
US 1997-55724P	19970818 (60)

DOCUMENT TYPE: Utility  
 FILE SEGMENT: APPLICATION  
 LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,  
 ROCKVILLE, MD, 20850  
 NUMBER OF CLAIMS: 23  
 EXEMPLARY CLAIM: 1  
 NUMBER OF DRAWINGS: 2 Drawing Page(s)  
 LINE COUNT: 26326  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 10 OF 153 USPATFULL on STN

TI Interferon Receptor HKAEF92

AB The present invention relates to a novel Interferon receptor  
 "INFR-HKAEF92" protein which is a member of the Interferon/IL-10  
 receptor family. In particular, isolated nucleic acid molecules are  
 provided encoding the human INFR-HKAEF92 protein. INFR-HKAEF92  
 polypeptides are also provided as are vectors, host cells and  
 recombinant methods for producing the same. The invention further  
 relates to screening methods for identifying agonists and antagonists of  
 INFR-HKAEF92 activity. Also provided are diagnostic methods for  
 detecting immune system-related disorders and therapeutic methods for  
 treating immune system-related disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:250992 USPATFULL  
 TITLE: Interferon Receptor HKAEF92  
 INVENTOR(S): Ni, Jian, Germantown, MD, UNITED STATES  
 Ruben, Steven M., Brookeville, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003175778	A1	20030918
APPLICATION INFO.:	US 2003-358281	A1	20030205 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1999-453569, filed on 2 Dec 1999, PENDING Continuation-in-part of Ser. No. US 1999-326216, filed on 3 Jun 1999, ABANDONED		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-88185P	19980605 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850	
NUMBER OF CLAIMS:	35	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	6 Drawing Page(s)	
LINE COUNT:	12153	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 11 OF 153 USPATFULL on STN

TI Nucleic acids, proteins, and antibodies

AB The present invention relates to novel proteins. More specifically,  
 isolated nucleic acid molecules are provided encoding novel  
 polypeptides. Novel polypeptides and antibodies that bind to these  
 polypeptides are provided. Also provided are vectors, host cells, and  
 recombinant and synthetic methods for producing human polynucleotides  
 and/or polypeptides, and antibodies. The invention further relates to



diagnostic and therapeutic methods useful for diagnosing, treating, preventing and/or prognosing disorders related to these novel polypeptides. The invention further relates to screening methods for identifying agonists and antagonists of polynucleotides and polypeptides of the invention. The present invention further relates to methods and/or compositions for inhibiting or enhancing the production and function of the polypeptides of the present invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:250953 USPATFULL  
 TITLE: Nucleic acids, proteins, and antibodies  
 INVENTOR(S): Rosen, Craig A., Laytonsville, MD, UNITED STATES  
 Ruben, Steven M., Olney, MD, UNITED STATES  
 Barash, Steven C., Rockville, MD, UNITED STATES  
 PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED STATES, 20850 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003175739	A1	20030918
APPLICATION INFO.:	US 2002-222020	A1	20020816 (10)
RELATED APPLN. INFO.:	Continuation of Ser. No. US 2002-116016, filed on 5 Apr 2002, PENDING Continuation of Ser. No. US 2001-764848, filed on 17 Jan 2001, ABANDONED		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-179065P	20000131 (60)
	US 2000-180628P	20000204 (60)
	US 2000-214886P	20000628 (60)
	US 2000-217487P	20000711 (60)
	US 2000-225758P	20000814 (60)
	US 2000-220963P	20000726 (60)
	US 2000-217496P	20000711 (60)
	US 2000-225447P	20000814 (60)
	US 2000-218290P	20000714 (60)
	US 2000-225757P	20000814 (60)
	US 2000-226868P	20000822 (60)
	US 2000-216647P	20000707 (60)
	US 2000-225267P	20000814 (60)
	US 2000-216880P	20000707 (60)
	US 2000-225270P	20000814 (60)
	US 2000-251869P	20001208 (60)
	US 2000-235834P	20000927 (60)
	US 2000-234274P	20000921 (60)
	US 2000-234223P	20000921 (60)
	US 2000-228924P	20000830 (60)
	US 2000-224518P	20000814 (60)
	US 2000-236369P	20000929 (60)
	US 2000-224519P	20000814 (60)
	US 2000-220964P	20000726 (60)
	US 2000-241809P	20001020 (60)
	US 2000-249299P	20001117 (60)
	US 2000-236327P	20000929 (60)
	US 2000-241785P	20001020 (60)
	US 2000-244617P	20001101 (60)
	US 2000-225268P	20000814 (60)
	US 2000-236368P	20000929 (60)
	US 2000-251856P	20001208 (60)
	US 2000-251868P	20001208 (60)
	US 2000-229344P	20000901 (60)
	US 2000-234997P	20000925 (60)
	US 2000-229343P	20000901 (60)
	US 2000-229345P	20000901 (60)

US 2000-229287P	20000901 (60)
US 2000-229513P	20000905 (60)
US 2000-231413P	20000908 (60)
US 2000-229509P	20000905 (60)
US 2000-236367P	20000929 (60)
US 2000-237039P	20001002 (60)
US 2000-237038P	20001002 (60)
US 2000-236370P	20000929 (60)
US 2000-236802P	20001002 (60)
US 2000-237037P	20001002 (60)
US 2000-237040P	20001002 (60)
US 2000-240960P	20001020 (60)
US 2000-239935P	20001013 (60)
US 2000-239937P	20001013 (60)
US 2000-241787P	20001020 (60)
US 2000-246474P	20001108 (60)
US 2000-246532P	20001108 (60)
US 2000-249216P	20001117 (60)
US 2000-249210P	20001117 (60)
US 2000-226681P	20000822 (60)
US 2000-225759P	20000814 (60)
US 2000-225213P	20000814 (60)
US 2000-227182P	20000822 (60)
US 2000-225214P	20000814 (60)
US 2000-235836P	20000927 (60)
US 2000-230438P	20000906 (60)
US 2000-215135P	20000630 (60)
US 2000-225266P	20000814 (60)
US 2000-249218P	20001117 (60)
US 2000-249208P	20001117 (60)
US 2000-249213P	20001117 (60)
US 2000-249212P	20001117 (60)
US 2000-249207P	20001117 (60)
US 2000-249245P	20001117 (60)
US 2000-249244P	20001117 (60)
US 2000-249217P	20001117 (60)
US 2000-249211P	20001117 (60)
US 2000-249215P	20001117 (60)
US 2000-249264P	20001117 (60)
US 2000-249214P	20001117 (60)
US 2000-249297P	20001117 (60)
US 2000-232400P	20000914 (60)
US 2000-231242P	20000908 (60)
US 2000-232081P	20000908 (60)
US 2000-232080P	20000908 (60)
US 2000-231414P	20000908 (60)
US 2000-231244P	20000908 (60)
US 2000-233064P	20000914 (60)
US 2000-233063P	20000914 (60)
US 2000-232397P	20000914 (60)
US 2000-232399P	20000914 (60)
US 2000-232401P	20000914 (60)
US 2000-241808P	20001020 (60)
US 2000-241826P	20001020 (60)
US 2000-241786P	20001020 (60)
US 2000-241221P	20001020 (60)
US 2000-246475P	20001108 (60)
US 2000-231243P	20000908 (60)
US 2000-233065P	20000914 (60)
US 2000-232398P	20000914 (60)
US 2000-234998P	20000925 (60)
US 2000-246477P	20001108 (60)
US 2000-246528P	20001108 (60)
US 2000-246525P	20001108 (60)

US 2000-246476P	20001108 (60)
US 2000-246526P	20001108 (60)
US 2000-249209P	20001117 (60)
US 2000-246527P	20001108 (60)
US 2000-246523P	20001108 (60)
US 2000-246524P	20001108 (60)
US 2000-246478P	20001108 (60)
US 2000-246609P	20001108 (60)
US 2000-246613P	20001108 (60)
US 2000-249300P	20001117 (60)
US 2000-249265P	20001117 (60)
US 2000-246610P	20001108 (60)
US 2000-246611P	20001108 (60)
US 2000-230437P	20000906 (60)
US 2000-251990P	20001208 (60)
US 2000-251988P	20001205 (60)
US 2000-251030P	20001205 (60)
US 2000-251479P	20001206 (60)
US 2000-256719P	20001205 (60)
US 2000-250160P	20001201 (60)
US 2000-251989P	20001208 (60)
US 2000-250391P	20001201 (60)
US 2000-254097P	20001211 (60)
US 2000-231968P	20000912 (60)
US 2000-226279P	20000818 (60)
US 2000-186350P	20000302 (60)
US 2000-184664P	20000224 (60)
US 2000-189874P	20000316 (60)
US 2000-198123P	20000418 (60)
US 2000-227009P	20000823 (60)
US 2000-235484P	20000926 (60)
US 2000-190076P	20000317 (60)
US 2000-209467P	20000607 (60)
US 2000-205515P	20000519 (60)
US 2001-259678P	20010105 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,  
ROCKVILLE, MD, 20850  
NUMBER OF CLAIMS: 24  
EXEMPLARY CLAIM: 1  
LINE COUNT: 20345  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 12 OF 153 USPATFULL on STN

TI Human chemokine beta-10 mutant polypeptides  
AB Human Chemokine Beta-10 polypeptides and DNA (RNA) encoding such  
chemokine polypeptides and a procedure for producing such polypeptides  
by recombinant techniques is disclosed. Also disclosed are methods for  
utilizing such chemokine polypeptides for the **treatment** of  
leukemia, tumors, chronic infections, autoimmune disease, fibrotic  
disorders, wound healing and psoriasis. Antagonists against such  
chemokine polypeptides and their use as a therapeutic to treat  
rheumatoid arthritis, autoimmune and chronic inflammatory and infective  
diseases, allergic reactions, prostaglandin-independent fever and bone  
marrow failure are also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:244905 USPATFULL  
TITLE: Human chemokine beta-10 mutant polypeptides  
INVENTOR(S): Olsen, Henrik S., Gaithersburg, MD, UNITED STATES  
Li, Haodong, Gaithersburg, MD, UNITED STATES  
Adams, Mark D., Rockville, MD, UNITED STATES  
Gentz, Solange H.L., Belo Horizonte, BRAZIL

Alderson, Ralph, Gaithersburg, MD, UNITED STATES  
 Li, Yuling, Germantown, MD, UNITED STATES  
 Parmelee, David, Rockville, MD, UNITED STATES  
 White, John R., Coatesville, PA, UNITED STATES  
 Appelbaum, Edward R., Blue Bell, PA, UNITED STATES  
 Salcedo, Theodora, East Syracuse, NY, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003171319	A1	20030911
APPLICATION INFO.:	US 2002-263139	A1	20021003 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2002-125451, filed on 19 Apr 2002, PENDING Continuation-in-part of Ser. No. WO 2001-US18046, filed on 5 Jun 2001, PENDING Continuation-in-part of Ser. No. US 1999-261201, filed on 3 Mar 1999, GRANTED, Pat. No. US 6458349 Continuation-in-part of Ser. No. US 1996-613822, filed on 23 Feb 1996, GRANTED, Pat. No. US 6174995 Continuation-in-part of Ser. No. US 1995-458355, filed on 2 Jun 1995, GRANTED, Pat. No. US 5981230 Continuation-in-part of Ser. No. WO 1994-US9484, filed on 23 Aug 1994, PENDING Continuation-in-part of Ser. No. WO 1994-US9484, filed on 23 Aug 1994, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-209578P	20000606 (60)
	US 1999-115439P	19990108 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	24 Drawing Page(s)	
LINE COUNT:	13207	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

L12 ANSWER 13 OF 153 USPATFULL on STN  
 TI Human cDNAs and proteins and uses thereof  
 AB The invention concerns GENSET polynucleotides and polypeptides. Such GENSET products may be used as reagents in forensic analyses, as chromosome markers, as tissue/cell/organelle-specific markers, in the production of expression vectors. In addition, they may be used in screening and diagnosis assays for abnormal GENSET expression and/or biological activity and for screening compounds that may be used in the **treatment** of GENSET-related disorders.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
 ACCESSION NUMBER: 2003:244219 USPATFULL  
 TITLE: Human cDNAs and proteins and uses thereof  
 INVENTOR(S): Bejanin, Stephane, Paris, FRANCE  
 Tanaka, Hiroaki, Antony, FRANCE  
 PATENT ASSIGNEE(S): GENSET, S.A., Paris, FRANCE (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003170628	A1	20030911
APPLICATION INFO.:	US 2001-999570	A1	20011114 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 2001-924340, filed on 6 Aug 2001, PENDING		

NUMBER	DATE

PRIORITY INFORMATION: WO 2001-IB1715 20010806  
 US 2001-305456P 20010713 (60)  
 US 2001-302277P 20010629 (60)  
 US 2001-298698P 20010615 (60)  
 US 2001-293574P 20010525 (60)

DOCUMENT TYPE: Utility  
 FILE SEGMENT: APPLICATION  
 LEGAL REPRESENTATIVE: SALIWANCHIK LLOYD & SALIWANCHIK, A PROFESSIONAL  
 ASSOCIATION, 2421 N.W. 41ST STREET, SUITE A-1,  
 GAINESVILLE, FL, 326066669

NUMBER OF CLAIMS: 13  
 EXEMPLARY CLAIM: 1  
 NUMBER OF DRAWINGS: 4 Drawing Page(s)  
 LINE COUNT: 25549  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 14 OF 153 USPATFULL on STN

TI 83 human secreted proteins  
 AB The present invention relates to novel human secreted proteins and  
 isolated nucleic acids containing the coding regions of the genes  
 encoding such proteins. Also provided are vectors, host cells,  
 antibodies, and recombinant methods for producing human secreted  
 proteins. The invention further relates to diagnostic and therapeutic  
 methods useful for diagnosing and treating diseases, disorders, and/or  
 conditions related to these novel human secreted proteins.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:238383 USPATFULL  
 TITLE: 83 human secreted proteins  
 INVENTOR(S): Ruben, Steven M., Olney, MD, UNITED STATES  
 Feng, Ping, Germantown, MD, UNITED STATES  
 LaFleur, David W., Washington, DC, UNITED STATES  
 Moore, Paul A., Germantown, MD, UNITED STATES  
 Shi, Yanggu, Gaithersburg, MD, UNITED STATES  
 Kyaw, Hla, Frederick, MD, UNITED STATES  
 Li, Yi, Sunnyvale, CA, UNITED STATES  
 Zeng, Zhizhen, Lansdale, PA, UNITED STATES  
 Carter, Kenneth C., North Potomac, MD, UNITED STATES  
 Endress, Gregory A., Florence, MA, UNITED STATES  
 Wei, Ying-Fei, Berkeley, CA, UNITED STATES  
 Fan, Ping, Potomac, MD, UNITED STATES  
 Rosen, Craig A., Laytonsville, MD, UNITED STATES  
 PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED  
 STATES, 20850 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003166541	A1	20030904
APPLICATION INFO.:	US 2002-160162	A1	20020604 (10)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-236557, filed on 26 Jan 1999, ABANDONED Continuation-in-part of Ser. No. WO 1998-US15949, filed on 29 Jul 1998, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-295558P	20010605 (60)
	US 1997-54209P	19970730 (60)
	US 1997-54211P	19970730 (60)
	US 1997-54212P	19970730 (60)
	US 1997-54213P	19970730 (60)
	US 1997-54214P	19970730 (60)
	US 1997-54215P	19970730 (60)
	US 1997-54217P	19970730 (60)
	US 1997-54218P	19970730 (60)

US 1997-54234P	19970730 (60)
US 1997-54236P	19970730 (60)
US 1997-55968P	19970818 (60)
US 1997-55969P	19970818 (60)
US 1997-55972P	19970818 (60)
US 1997-56534P	19970819 (60)
US 1997-56543P	19970819 (60)
US 1997-56554P	19970819 (60)
US 1997-56561P	19970819 (60)
US 1997-56727P	19970819 (60)
US 1997-56729P	19970819 (60)
US 1997-56730P	19970819 (60)

DOCUMENT TYPE: Utility  
FILE SEGMENT: APPLICATION  
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,  
ROCKVILLE, MD, 20850  
NUMBER OF CLAIMS: 24  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 2 Drawing Page(s)  
LINE COUNT: 24088  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L12 ANSWER 15 OF 153 USPATFULL on STN

TI Polynucleotide encoding a novel human potassium channel beta-subunit,  
K+betaM8  
AB The present invention provides novel polynucleotides encoding K+betaM8  
polypeptides, fragments and homologues thereof. Also provided are  
vectors, host cells, antibodies, and recombinant and synthetic methods  
for producing said polypeptides. The invention further relates to  
diagnostic and therapeutic methods for applying these novel K+betaM8  
polypeptides to the diagnosis, **treatment**, and/or prevention of  
various diseases and/or disorders related to these polypeptides. The  
invention further relates to screening methods for identifying agonists  
and antagonists of the polynucleotides and polypeptides of the present  
invention.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2003:232051 USPATFULL  
TITLE: Polynucleotide encoding a novel human potassium channel  
beta-subunit, K+betaM8  
INVENTOR(S): Feder, John N., Belle Mead, NJ, UNITED STATES  
Lee, Liana M., North Brunswick, NJ, UNITED STATES  
Chang, Han, Princeton Junction, NJ, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003162251	A1	20030828
APPLICATION INFO.:	US 2002-234951	A1	20020904 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2001-317087P	20010904 (60)
	US 2001-329666P	20011016 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STEPHEN B. DAVIS, BRISTOL-MYERS SQUIBB COMPANY, PATENT DEPARTMENT, P O BOX 4000, PRINCETON, NJ, 08543-4000	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Page(s)	
LINE COUNT:	16624	
CAS INDEXING IS AVAILABLE FOR THIS PATENT.		

**WEST****Freeform Search****Database:**

US Patents Full-Text Database ▲

US Pre-Grant Publication Full-Text Database

JPO Abstracts Database

EPO Abstracts Database

Derwent World Patents Index

IBM Technical Disclosure Bulletins ▼

L2 and I1 ▲

**Term:** ▼**Display:** 10 **Documents in Display Format:** CIT **Starting with Number** 1**Generate:** ☐ Hit List ☒ Hit Count ☐ Side by Side ☐ Image

Search

Clear

Help

Logout

Interrupt

Main Menu

Show Numbers

Edit Numbers

Preferences

Help

**Search History****DATE:** Thursday, October 30, 2003 [Printable Copy](#) [Create Case](#)

<u>Set Name</u> side by side	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L3</u>	L2 and I1	56935	<u>L3</u>
<u>L2</u>	cancer therapy	107591	<u>L2</u>
<u>L1</u>	secreted protein	143193	<u>L1</u>

END OF SEARCH HISTORY

FILE 'MEDLINE' ENTERED AT 16:29:46 ON 30 OCT 2003

FILE 'WPIDS' ENTERED AT 16:29:46 ON 30 OCT 2003  
COPYRIGHT (C) 2003 THOMSON DERWENT

=> s secreted protein  
L1 4670 SECRETED PROTEIN

=> s cancer therapy  
L2 19002 CANCER THERAPY

=> s l2 and l1  
L3 7 L2 AND L1

=> d l3 ti abs ibib tot

L3 ANSWER 1 OF 7 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
TI Secretory production of recombinant urokinase kringle domain in *Pichia pastoris*.  
AB Human urokinase kringle domain, sharing homology with angiostatin kringles, has been shown to be an inhibitor of angiogenesis, which can be used for the treatment of cancer, rheumatoid arthritis, psoriasis, and retinopathy. Here, the expression of the kringle domain of urokinase (UK1) as a **secreted protein** in high levels is reported. UK1 was expressed in the methylotrophic yeast *Pichia pastoris* GS115 by fusion of the cDNA spanning from Ser47 to Lys135 to the secretion signal sequence of alpha-factor prepro-peptide. In a flask culture, the secreted UK1 reached about 1 g/l level after 120 h of methanol induction and was purified to homogeneity by ion-exchange chromatography. Amino-terminal sequencing of the purified UK1 revealed that it was cleaved at the Stel3 signal cleavage site. The molecular mass of UK1 was determined to be 10,297.01 Da. It was also confirmed that the purified UK1 inhibited endothelial cell proliferation stimulated by basic fibroblast growth factor, vascular endothelial growth factor, or epidermal growth factor, in a dose-dependent manner. These results suggest that a *P. pastoris* system can be employed to obtain large amounts of soluble and active UK1.

ACCESSION NUMBER: 2003:490314 BIOSIS  
DOCUMENT NUMBER: PREV200300492318  
TITLE: Secretory production of recombinant urokinase kringle domain in *Pichia pastoris*.  
AUTHOR(S): Kim Hyun-Kyung; Hong, Yong-Kil; Park, Hyo-Eun; Hong, Sung Hee; Joe, Young Ae [Reprint Author]  
CORPORATE SOURCE: Cancer Research Institute, Catholic Research Institutes of Medical Sciences, Catholic University of Korea, Seoul, 137-701, South Korea  
youngjoe@catholic.ac.kr  
SOURCE: Journal of Microbiology and Biotechnology, (August 2003)  
Vol. 13, No. 4, pp. 591-597. print.  
ISSN: 1017-7825.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 22 Oct 2003  
Last Updated on STN: 22 Oct 2003

L3 ANSWER 2 OF 7 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
TI Ribozyme-targeting of a secreted FGF-binding protein (FGF-BP) inhibits proliferation of prostate cancer cells in vitro and in vivo.  
AB Prostate cancer is one of the most common malignant tumors with increasing incidence rates in the aging male. Since locally advanced or metastatic prostate tumors are essentially incurable, identification of new target molecules and treatment strategies is of critical importance. Fibroblast growth factor-2 (FGF-2) acts as potent mitogen which is upregulated in



Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1653hxp

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 09 CA/CAPLUS records now contain indexing from 1907 to the  
present  
NEWS 4 AUG 05 New pricing for EUROPATFULL and PCTFULL effective  
August 1, 2003  
NEWS 5 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN  
NEWS 6 AUG 18 Data available for download as a PDF in RDISCLOSURE  
NEWS 7 AUG 18 Simultaneous left and right truncation added to PASCAL  
NEWS 8 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right  
Truncation  
NEWS 9 AUG 18 Simultaneous left and right truncation added to ANABSTR  
NEWS 10 SEP 22 DIPPR file reloaded  
NEWS 11 SEP 25 INPADOC: Legal Status data to be reloaded  
NEWS 12 SEP 29 DISSABS now available on STN  
NEWS 13 OCT 10 PCTFULL: Two new display fields added  
NEWS 14 OCT 21 BIOSIS file reloaded and enhanced  
NEWS 15 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced  
  
NEWS EXPRESS OCTOBER 01 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
specific topic.

All use of STN is subject to the provisions of the STN Customer  
agreement. Please note that this agreement limits use to scientific  
research. Use for software development or design or implementation  
of commercial gateways or other similar uses is prohibited and may  
result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 16:29:34 ON 30 OCT 2003

=> file biosis, medline, wpids

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'BIOSIS' ENTERED AT 16:29:46 ON 30 OCT 2003

COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC.(R)

prostate cancers modulating cancer cell proliferation and development of an invasive phenotype. Normally it is tightly bound to the extracellular matrix that quenches its biological activity. The FGF-binding proteins (FGF-BP, HBp17) is a **secreted protein** which is able to mobilize and activate FGF-2 from the extracellular matrix. Here we show that FGF-BP is highly expressed in prostate tumor cells. To study the functional role of FGF-BP, we use a ribozyme-targeting approach to selectively deplete FGF-BP in prostate cancer cells achieving a more than 50% reduction of FGF-BP mRNA and protein levels in two mass-transfected cell lines. FGF-BP depletion reduces proliferation of the cells in vitro without changes in cell cycle distribution or apoptosis. Using cDNA microarrays, Northern blotting and RT-PCR, we show a complex pattern of changes in the gene expression profiles upon FGF-BP depletion. Most strikingly, ribozyme-mediated reduction of FGF-BP levels completely abolishes the ability of the highly metastatic PC-3 prostate carcinoma cells to grow tumors in an athymic nude mouse in vivo model which is far beyond the effects of FGF-BP ribozyme targeting observed previously in cells from other tumors in the same model. Taken together, our study identifies FGF-BP as a potential rate-limiting factor for prostate cancer growth and, due to its restricted expression pattern in adults, a potentially attractive target for prostate **cancer therapy**.

ACCESSION NUMBER: 2002:484632 BIOSIS  
DOCUMENT NUMBER: PREV200200484632  
TITLE: Ribozyme-targeting of a secreted FGF-binding protein (FGF-BP) inhibits proliferation of prostate cancer cells in vitro and in vivo.  
AUTHOR(S): Aigner, Achim [Reprint author]; Renneberg, Heiner; Bojunga, Joerg; Apel, Juergen; Nelson, Peter S.; Czubayko, Frank  
CORPORATE SOURCE: Department of Pharmacology and Toxicology, Philipps-University School of Medicine, Marburg, Germany aigner@mailier.uni-marburg.de  
SOURCE: Oncogene, (22 August, 2002) Vol. 21, No. 37, pp. 5733-5742. print.  
CODEN: ONCNES. ISSN: 0950-9232.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 18 Sep 2002  
Last Updated on STN: 18 Sep 2002

L3 ANSWER 3 OF 7 BIOSIS COPYRIGHT 2003 BIOLOGICAL ABSTRACTS INC. on STN  
TI Production process for recombinant human angiostatin in Pichia pastoris.  
AB A pilot-scale production method of recombinant human angiostatin, a 38-kD fragment of plasminogen which has been reported to have antiangiogenic activity, has been successfully established by expressing the protein in the methylotrophic yeast Pichia pastoris. The **secreted protein** inhibited culture endothelial cell proliferation in vitro and Lewis lung carcinoma growth in mice. The fermentation process was carried out using an on-line methanol controller, administering methanol to the growing culture and keeping its concentration under 2 g L<sup>-1</sup>. The fermentation lasted 90 h, of which 70 h were growth on methanol. During growth on methanol the culture volume increased 64%, from 7 L to 11.5 L, producing 200 mg angiostatin and 5 kg of biomass.

ACCESSION NUMBER: 2000:154528 BIOSIS  
DOCUMENT NUMBER: PREV200000154528  
TITLE: Production process for recombinant human angiostatin in Pichia pastoris.  
AUTHOR(S): Lin, J.; Panigraphy, D.; Trinh, L. B.; Folkman, J.; Shiloach, J. [Reprint author]  
CORPORATE SOURCE: Biotechnology Unit, NIH, Bldg 6 Rm B133, Bethesda, MD, 20892, USA  
SOURCE: Journal of Industrial Microbiology and Biotechnology, (Jan., 2000) Vol. 24, No. 1, pp. 31-35. print.  
ISSN: 1367-5435.

DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 26 Apr 2000  
Last Updated on STN: 4 Jan 2002

L3 ANSWER 4 OF 7 MEDLINE on STN  
TI Ribozyme-targeting of a secreted FGF-binding protein (FGF-BP) inhibits proliferation of prostate cancer cells in vitro and in vivo.  
AB Prostate cancer is one of the most common malignant tumors with increasing incidence rates in the aging male. Since locally advanced or metastatic prostate tumors are essentially incurable, identification of new target molecules and treatment strategies is of critical importance. Fibroblast growth factor-2 (FGF-2) acts as potent mitogen which is upregulated in prostate cancers modulating cancer cell proliferation and development of an invasive phenotype. Normally it is tightly bound to the extracellular matrix that quenches its biological activity. The FGF-binding proteins (FGF-BP, HBP17) is a **secreted protein** which is able to mobilize and activate FGF-2 from the extracellular matrix. Here we show that FGF-BP is highly expressed in prostate tumor cells. To study the functional role of FGF-BP, we use a ribozyme-targeting approach to selectively deplete FGF-BP in prostate cancer cells achieving a more than 50% reduction of FGF-BP mRNA and protein levels in two mass-transfected cell lines. FGF-BP depletion reduces proliferation of the cells in vitro without changes in cell cycle distribution or apoptosis. Using cDNA microarrays, Northern blotting and RT-PCR, we show a complex pattern of changes in the gene expression profiles upon FGF-BP depletion. Most strikingly, ribozyme-mediated reduction of FGF-BP levels completely abolishes the ability of the highly metastatic PC-3 prostate carcinoma cells to grow tumors in an athymic nude mouse in vivo model which is far beyond the effects of FGF-BP ribozyme targeting observed previously in cells from other tumors in the same model. Taken together, our study identifies FGF-BP as a potential rate-limiting factor for prostate cancer growth and, due to its restricted expression pattern in adults, a potentially attractive target for prostate **cancer therapy**.

ACCESSION NUMBER: 2002418379 MEDLINE  
DOCUMENT NUMBER: 22162915 PubMed ID: 12173043  
TITLE: Ribozyme-targeting of a secreted FGF-binding protein (FGF-BP) inhibits proliferation of prostate cancer cells in vitro and in vivo.  
AUTHOR: Aigner Achim; Renneberg Heiner; Bojunga Jorg; Apel Jurgen; Nelson Peter S; Czubayko Frank  
CORPORATE SOURCE: Department of Pharmacology and Toxicology, Philipps-University School of Medicine, Marburg, Germany.. aigner@mailier.uni-marburg.de  
SOURCE: ONCOGENE, (2002 Aug 22) 21 (37) 5733-42.  
Journal code: 8711562. ISSN: 0950-9232.  
PUB. COUNTRY: England; United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200209  
ENTRY DATE: Entered STN: 20020813  
Last Updated on STN: 20020911  
Entered Medline: 20020910

L3 ANSWER 5 OF 7 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
TI Assessing the presence of ovarian cancers in humans, as well as efficacy of a **cancer therapy**, by determining the level of expression of ovarian cancer marker gene(s), e.g., mesothelin, matrix metalloproteinase.  
AN 2003-361913 [34] WPIDS  
AB US2003003479 A UPAB: 20030529  
NOVELTY - Assessing whether a patient is afflicted with ovarian cancer by

comparing the level of expression of one or several ovarian cancer marker genes in a patient sample to a control subject not afflicted with ovarian cancer. At least one of the marker genes is from any of the 714 marker genes fully described in the specification, e.g. mesothelin, tryptophan hydroxylase, apoptosis-related protein PNAS-1, or leukemia-associated phosphoprotein p18.

DETAILED DESCRIPTION - Assessing whether a patient is afflicted with ovarian cancer comprises comparing:

(a) the level of expression of one or several ovarian cancer marker genes in a patient sample; and

(b) the normal level of expression of one or several of the marker genes in a sample from a control subject not afflicted with ovarian cancer.

At least one of the marker genes is from any of the 714 marker genes fully described in the specification, e.g. mesothelin (AI056417), brain-specific Na-dependent inorganic phosphate cotransporter (AA702627), tryptophan hydroxylase (tryptophan 5-monooxygenase) (AA702193), ariadne-2 (D. melanogaster) homolog (AA136879), FLJ20689 fis, KAIA2890 (AA448710), high density lipoprotein binding protein (vigilin) (T55446), apoptosis-related protein PNAS-1 (AA521316), or leukemia-associated phosphoprotein p18 (AA873060). A significant difference between the level of expression of one or several of the marker genes in the patient sample, and the normal level of the marker gene(s) is an indication that the patient is afflicted with ovarian cancer.

INDEPENDENT CLAIMS are also included for the following:

- (1) monitoring the progression of ovarian cancer in a patient;
- (2) assessing the efficacy of a test compound for inhibiting ovarian cancer in a patient;
- (3) assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient;
- (4) selecting a composition for inhibiting ovarian cancer in a patient;
- (5) inhibiting ovarian cancer in a patient;
- (6) kits for assessing whether a patient is afflicted with ovarian cancer, the presence of ovarian cancer cells, the suitability of each of the compounds for inhibiting ovarian cancer in a patient, the presence of human ovarian cancer cells, or the ovarian cell carcinogenic potential of a test compound;
- (7) making an isolated hybridoma that produces an antibody for assessing whether a patient is afflicted with ovarian cancer;
- (8) an antibody produced by the hybridoma made by the method (7);
- (9) assessing the ovarian cell carcinogenic potential of a test compound;
- (10) inhibiting ovarian cancer in a patient at risk for developing ovarian cancer by inhibiting the expression of any of the marker genes cited above;
- (11) treating a patient afflicted with ovarian cancer by providing to the cells of the patient an antisense oligonucleotide complementary to a polynucleotide encoded by any of the marker genes cited above, or a segment of the polynucleotide;
- (12) determining whether ovarian cancer has metastasized in a patient; and
- (13) assessing the aggressiveness or indolence of ovarian cancer.

ACTIVITY - Cytostatic.

No biological data given.

MECHANISM OF ACTION - Gene Therapy; Antisense Therapy.

USE - The method is useful for detecting or diagnosing human ovarian cancers, monitoring the progression of ovarian cancer in a patient, assessing the efficacy of a test compound for inhibiting ovarian cancer in a patient, or assessing the efficacy of a therapy for inhibiting ovarian cancer in a patient. The marker genes may also be used for screening compositions for inhibiting or treating ovarian cancer in a patient.

Dwg.0/0

DOC. NO. CPI: C2003-095491  
 TITLE: Assessing the presence of ovarian cancers in humans, as well as efficacy of a **cancer therapy**, by determining the level of expression of ovarian cancer marker gene(s), e.g., mesothelin, matrix metalloproteinase.  
 DERWENT CLASS: B04 D16  
 INVENTOR(S): KOVATS, S G; LILLIE, J; MORRISSEY, M P; SEN, A  
 PATENT ASSIGNEE(S): (MILL-N) MILLENNIUM PHARM INC  
 COUNTRY COUNT: 1  
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
US 2003003479	A1	20030102	(200334)*		47

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
US 2003003479	A1 Provisional	US 2001-285443P	20010419
		US 2002-126227	20020419

PRIORITY APPLN. INFO: US 2001-285443P 20010419; US 2002-126227 20020419

L3 ANSWER 6 OF 7 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
 TI Assessing whether patient is afflicted with breast cancer comprises comparing level of expression of marker in patient sample to marker expression in control non-breast cancer sample.  
 AN 2001-381919 [40] WPIDS  
 AB WO 200146697 A UPAB: 20010719  
 NOVELTY - Assessing whether a patient is afflicted with breast cancer comprising comparing the level of expression of a marker fully defined in the specification in a patient sample to the normal level of expression of the marker in a control non-breast cancer sample, where a significant difference between the two is an indication that the patient is afflicted with breast cancer, is new.  
 DETAILED DESCRIPTION - Assessing (M1) whether a patient is afflicted with breast cancer comprising comparing the level of expression of a marker (I) fully defined in the specification in a patient sample to the normal level of expression of the marker in a control non-breast cancer sample, where a significant difference between the level of expression of the marker in the patient sample and the normal level is an indication that the patient is afflicted with breast cancer, is new.  
 INDEPENDENT CLAIMS are included for the following:  
 (1) monitoring (M2) the progression of breast cancer in a patient comprising:  
 (a) detecting in a patient sample at a first point in time, the expression of (I);  
 (b) repeating (a) at a subsequent point in time; and  
 (c) comparing the level of expression detected in (a) and (b);  
 (2) assessing the efficacy of a test compound for inhibiting a breast cancer in a patient comprising comparing the expression of (I) in a first sample obtained from the patient and maintained in the presence of the test compound and expression of (I) in a second sample obtained from the patient and maintained in the absence of the test compound, where a significantly altered level of expression of (I) in the first sample relative to the second is indicative that the compound is efficacious for inhibiting breast cancer in the patient;  
 (3) assessing the efficacy of a therapy for inhibiting breast cancer comprising comparing expression of (I) in the first sample obtained from the patient prior to providing at least a portion of the therapy to the

patient and expression of (I) following provision of the therapy, where a significantly altered level of expression of (I) in the first sample relative to the second is indicative that the therapy is efficacious for inhibiting breast cancer in the patient;

(4) selecting (M3) a composition for inhibiting breast cancer in a patient comprising:

- (a) obtaining a cancer cell containing sample from the patient;
- (b) separately maintaining sample aliquots in the presence of test compositions;
- (c) comparing expression of (I) in each aliquot; and
- (d) selecting one of the compositions which induces an altered level of expression of (I) relative to the other compositions;

(5) inhibiting breast cancer in a patient comprising administering the selected composition of M3;

(6) making (M4) an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with breast cancer comprising:

(a) immunizing a mammal using an isolated protein corresponding to (I);

(b) isolating the splenocytes from the mammal;

(c) fusing the splenocytes with an immortalized cell line to form hybridomas; and

(d) screening individual hybridomas for production of an antibody which specifically binds with the protein;

(7) an antibody produced by M4;

(8) assessing the breast cell carcinogenic potential of a test compound comprising maintaining separate breast cell aliquots in the presence and absence of the test compound and comparing expression of (I) in each of the aliquots, where a significantly altered level of expression of (I) in the aliquot maintained in the presence of the compound relative to the aliquot maintained in the absence of the compound is an indication that the compound possesses human breast cell carcinogenic potential;

(9) treating (M5) a patient afflicted with breast cancer comprising providing a protein corresponding to (I) or an antisense oligonucleotide complementary to a polynucleotide corresponding to (I) to the cells of the cancer;

(10) inhibiting breast cancer in a patient at risk for developing breast cancer comprising inhibiting expression of a gene corresponding to (I);

(11) a system (II) for identifying selected polynucleotide records that identify a breast cancer cell comprising a digital computer, a database coupled to the computer, a database coupled to the database server with stored data records containing a polynucleotide corresponding to (I) and a code mechanism for applying queries based upon a desired selection criteria to the data file in the database to produce reports of polynucleotide records which match the desired selection criteria; and

(12) detecting a breast cancer cell comprising using (II).

ACTIVITY - Anticancer. No supporting data is given.

MECHANISM OF ACTION - Gene therapy.

USE - The methods are useful for:

(1) assessing:

- (a) whether a patient is afflicted with breast cancer;
- (b) the stage and grade of breast cancer;
- (c) the benign or malignant nature of breast cancer;
- (d) the histological type of neoplasm (e.g. ductal or lobular);
- (e) the presence of breast cancer cells; and
- (f) the efficacy of a test compound or therapy for inhibiting breast cancer;

(2) making an isolated hybridoma which produces an antibody useful for assessing whether a patient is afflicted with breast cancer;

(3) monitoring the progression of breast cancer in a patient;

(4) selecting a composition or therapy for inhibiting breast cancer;

(5) treating breast cancer or inhibiting breast cancer (in a patient at risk from breast cancer; and

(6) assessing the carcinogenic potential of a test compound.

Dwg.0/0

ACCESSION NUMBER: 2001-381919 [40] WPIDS  
DOC. NO. NON-CPI: N2001-280071  
DOC. NO. CPI: C2001-117049  
TITLE: Assessing whether patient is afflicted with breast cancer  
comprises comparing level of expression of marker in  
patient sample to marker expression in control non-breast  
cancer sample.  
DERWENT CLASS: B04 D16 S03  
INVENTOR(S): ELIAS, J; LILLIE, J; PALERMO, A; STEINMANN, K; WANG, Y  
PATENT ASSIGNEE(S): (MILL-N) MILLENNIUM PREDICTIVE MEDICINE INC  
COUNTRY COUNT: 93  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
-----					
WO 2001046697	A2	20010628	(200140)*	EN	115
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ					
NL OA PT SD SE SL SZ TR TZ UG ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM					
DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC					
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE					
SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW					
AU 2001025969	A	20010703	(200164)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
-----			
WO 2001046697	A2	WO 2000-US35214	20001221
AU 2001025969	A	AU 2001-25969	20001221

FILING DETAILS:

PATENT NO	KIND	PATENT NO
-----		
AU 2001025969	A Based on	WO 2001046697

PRIORITY APPLN. INFO: US 2000-219865P 20000720; US 1999-171406P  
19991221; US 2000-176423P 20000114; US  
2000-190471P 20000317; US 2000-193482P  
20000329; US 2000-205231P 20000515; US  
2000-213236P 20000620

L3 ANSWER 7 OF 7 WPIDS COPYRIGHT 2003 THOMSON DERWENT on STN  
TI New isolated nucleic acid for diagnosing and treating cervical cancer and  
for assessing and detecting compounds for treating the cancer.  
AN 2001-375006 [39] WPIDS  
AB WO 200142467 A UPAB: 20010716  
NOVELTY - An isolated nucleic acid (I) comprising:  
(a) a nucleotide sequence 90 % identical to one of 4 tables of  
sequences (S1) given in the specification;  
(b) a fragment of one of (S1); or  
(c) one of or a complement of (S1), is new.  
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the  
following:  
(1) a vector containing (I);  
(2) a host cell containing (I);  
(3) an isolated polypeptide encoded by (Ia);  
(4) an antibody that binds (3);  
(5) producing (3) comprising culturing (2);  
(6) detecting the presence of (3) in a sample comprising contacting  
the sample with a compound that binds (3) and determining binding;

(7) detecting the presence of (I) in a sample comprising contacting the sample with a nucleic acid probe or primer that hybridizes to (I) and determining binding;

(8) kits comprising a compound that binds (3) or (I);

(9) assessing if a patient is afflicted with cervical cancer or has a pre-malignant condition, comprising comparing the level of expression of a marker (M) that is 1 of (S1) in a patient sample and the normal level of expression of (M) in a control non-cervical cancer sample, where a significant difference between the expression levels in the 2 samples is an indication that the patient is afflicted;

(10) monitoring the progression of cervical cancer or a premalignant condition in a patient comprising:

(a) detecting in a patient sample at a point in time, the expression of (M);

(b) repeating (a) at a subsequent point in time; and

(c) comparing the level of expression detected in (a) and (b);

(11) assessing the efficacy of a compound or therapy for inhibiting cervical cancer in a patient comprising comparing:

(a) expression of (M) in a patient sample exposed to the compound or a sample obtained following a portion of the therapy; and

(b) expression of (M) in a second patient sample not exposed to the compound or a sample obtained prior to the portion of therapy, where a significantly lower level of expression of (M) in the first sample relative to the second sample, is an indication that the compound or therapy is efficacious for inhibiting cervical cancer;

(12) selecting a composition for inhibiting cervical cancer comprising:

(a) separately exposing aliquots of a sample of cancer cells from a patient in the presence of compositions;

(b) comparing expression of (M) in each of the aliquots; and

(c) selecting one of the compositions which induces a lower level of expression of (M) in the aliquot containing that composition, relative to other compositions;

(13) inhibiting cervical cancer in a patient comprising:

(a) 12(a)

(b) separately maintaining aliquots of the sample in the presence of compositions;

(c) 12(c); and

(d) administering to the patient one of the compositions which induces a lower level of expression of the marker in the aliquot containing the composition, relative to other compositions;

(14) kits for assessing:

(a) if a patient is afflicted with cervical cancer or a pre-malignant condition, comprising reagents for assessing expression of (M);

(b) the presence of cervical cancer cells or pre-malignant cervical cells or lesions, comprising a nucleic acid probe that specifically binds with a transcribed polynucleotide corresponding to (M) or an antibody that binds a protein corresponding to (M);

(c) assessing the suitability of compounds for inhibiting cervical cancer, comprising the compounds and a reagent for assessing expression of (M);

(15) making an isolated hybridoma which produces an antibody used for assessing whether a patient is afflicted with cervical cancer or a pre-malignant condition, comprising:

(a) isolating a protein or fragment corresponding to (M);

(b) immunizing a mammal using the protein or fragment;

(c) isolating splenocytes from the immunized mammal;

(d) fusing the splenocytes with an immortalized cells line to form hybridomas; and

(e) screening individual hybridomas for production of an antibody which binds the protein or fragment to isolate the hybridoma;

(16) an antibody produced by the hybridoma of (15);

(17) assessing the cervical cell carcinogenic potential of a compound comprising:



(a) maintaining separate aliquots of cervical cells in the presence and absence of the compound;  
(b) comparing expression of (M) in each of the aliquots, where a significantly enhanced level of expression of (M) in the aliquot maintained in the presence of the compound, relative to the aliquot in the absence of the compound, is an indication that the compound possesses the potential;  
(18) a kit for assessing the carcinogenic potential of a compound comprising cervical cells and a reagent for assessing expression of (M);  
(19) treating a patient afflicted with cervical cancer comprising providing to a patient an antisense oligonucleotide complementary to a polynucleotide corresponding to (M); and  
(20) inhibiting cervical cancer in a patient at risk for developing cervical cancer comprising inhibiting expression of a gene corresponding to (M).

ACTIVITY - Cytostatic. No biological data is given.

MECHANISM OF ACTION - Gene therapy.

USE - (I) and a polypeptide encoded by (I) are used:

(a) to assess if a patient is afflicted with cervical cancer or has a pre-malignant condition;

(b) to monitor the progression of cervical cancer or a premalignant condition in a patient; and

(c) to assess the efficacy of a compound or therapy, or select a composition, for inhibiting cervical cancer in a patient.

(I) is used to produce a polypeptide in a host cell. A compound which binds to the polypeptide, such as an antibody, is used to test for cervical cancer in a patient sample. A protein or fragment corresponding to (I) is used to make an isolated hybridoma which produces an antibody used for assessing whether a patient is afflicted with cervical cancer or a pre-malignant condition. An oligonucleotide complementary to (I) is used to treat a patient afflicted with cervical cancer (claimed).

Dwg.0/0

ACCESSION NUMBER: 2001-375006 [39] WPIDS  
DOC. NO. NON-CPI: N2001-274388  
DOC. NO. CPI: C2001-114664  
TITLE: New isolated nucleic acid for diagnosing and treating cervical cancer and for assessing and detecting compounds for treating the cancer.  
DERWENT CLASS: B04 D16 S03  
INVENTOR(S): BERGER, A; DEEDS, J; SCHLEGEL, R; ZHAO, X  
PATENT ASSIGNEE(S): (MILL-N) MILLENNIUM PREDICTIVE MEDICINE INC  
COUNTRY COUNT: 93  
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
-----					
WO	2001042467	A2	20010614	(200139)*	EN
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ					
NL OA PT SD SE SL SZ TR TZ UG ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM					
DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC					
LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE					
SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW					
AU	2001020742	A	20010618	(200161)	

#### APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
-----			
WO	2001042467	A2	WO 2000-US33312 20001208
AU	2001020742	A	AU 2001-20742 20001208

#### FILING DETAILS:

PATENT NO	KIND	PATENT NO
-----		
AU 2001020742	A	Based on
		WO 2001042467

PRIORITY APPLN. INFO: US 2000-220114P 20000721; US 1999-169681P  
19991208; US 1999-171350P 19991221; US  
2000-189315P 20000314; US 2000-203791P  
20000512; US 2000-210600P 20000609

=> e fiscella/au